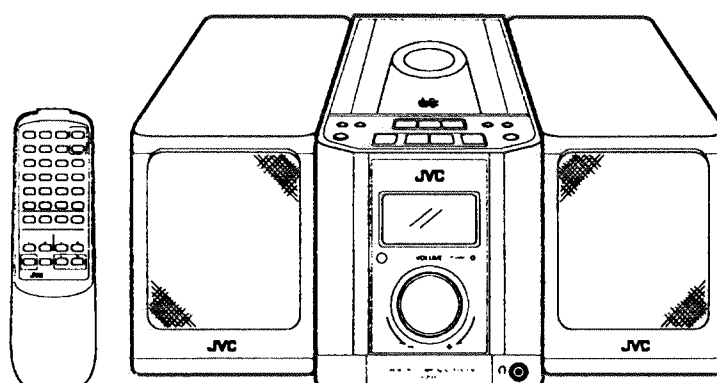


# JVC

# SERVICE MANUAL

ULTRA MICRO COMPONENT SYSTEM

## UX-2000GD UF



**COMPACT**  
**disc**  
**DIGITAL AUDIO**


### Area Suffix

UF .....China

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# 1.Safety Precautions

1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety - related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by (  ) on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

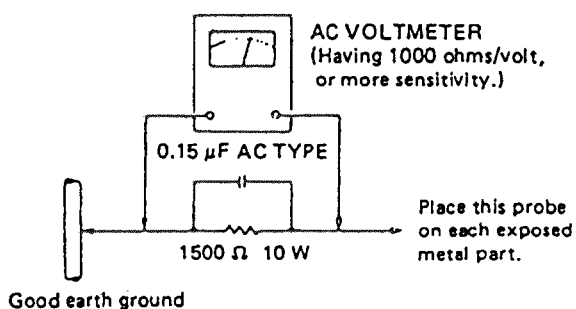
## 5. Leakage current check (Electrical shock hazard testing)

After re - assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

### • Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15  $\mu$  F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



## CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

## 2.Safety Precaution about UX-T2000GD

### ■ Important management points regarding safety(Items demanding special safety precautions)

1. Power transformer marking : VTP66J2 – 12K  
The torque of the screw driver for the power transformer must be controlled.
2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.  
The AC socket must not float from print circuit board.  
•Marking ..... HJC027
3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.
4. Before installation confirm the fuse capacity indication, Ⓢ or Ⓢ mark on the holder.

REF.NO	Capacity and mark	Indication on P.C.board
F901	T400mA/250V	T400mA/250V
F902	T6.3A/250V	T6.3A/250V

5. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.
6. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in ( ) must be controled.  
• IC901, IC31, (Q9201),R1001, R1002,R2001,R2002,(R5904),(R4003),IC602, Heat sink+IC91, IC holder( For IC901, IC31), (Heat sink)

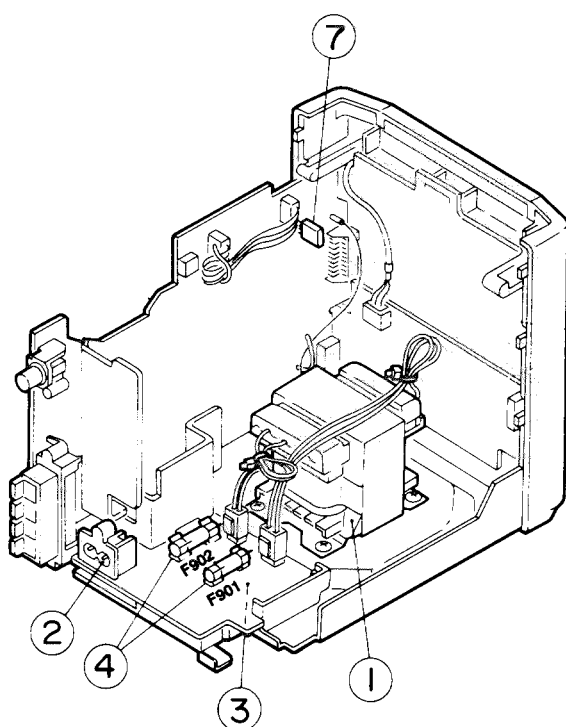


Fig. 2-1

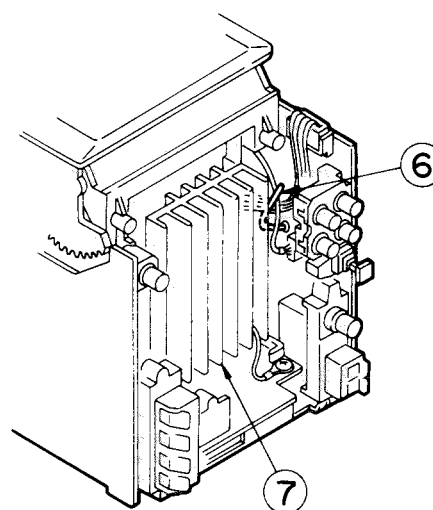


Fig. 2-2

**-MEMO-**



# 3.Instructions



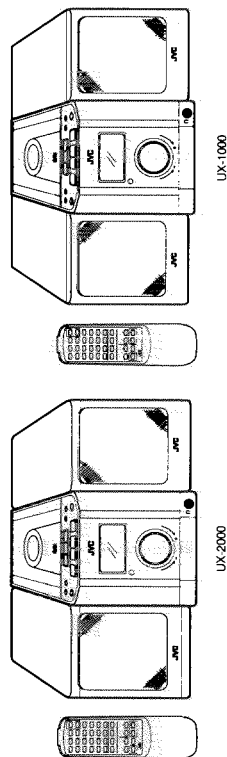
JVC

UX-2000/UX-1000UF

微型組合音響

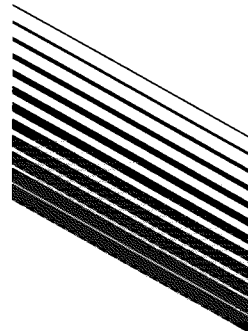
UX-2000<sup>UF</sup>  
UX-1000<sup>UF</sup>

微型組合音響



COMPACT  
disc  
DIGITAL AUDIO

使用說明書



## 規格

- CD 播放部分
- 類型 : 小型雷射唱機
  - 信號輸出 : 無輸出端子
  - 製造 : 雙聲道
  - 頻率範圍 : 20 Hz~20,000 Hz
  - 信噪比 : 90 dB
  - 變調度 : 小於0.0001%
- 無線電收音機部分
- 頻率範圍 : FM: 87.5~108 MHz  
AM: 531~1,602 kHz (頻道間隔設定於 AM9 kHz)  
AM: 530~1,710 kHz (頻道間隔設定於 AM10 kHz)
  - 大綱 : 用於 AM 的選台天線  
用於 FM (75Ω) 的外接天線端子
- 揚聲器部分 (均相同)
- 揚聲器 : 8 cm×1
  - 阻抗 : 4 Ω
  - 體積 : 120 (寬)×158 (高)×186 (深) mm
  - 重量 : 約 1.3 kg (UX-2000)  
約 1.4 kg (UX-1000)
- 總合
- 輸出功率 : 18 W (0 W+9 W) 於 4 Ω (聽人語時  
失真 2%)
  - 輸入端子 : 輔助輸入 LINE IN (AUX) (300  
mVA/47 kΩ)
  - 輸出端子 : 耳機 (PHONES)×1 (輸出電壓: 0~  
15 mV/無負載, 32 Ω, 匹配阻抗 :  
16 Ω~1 kΩ)  
揚聲器 (SPEAKER) (匹配阻抗 4 Ω  
~16 Ω)
  - 線路輸出 : 30 mV/47 kΩ)  
即低阻抗輸出  
光學數字輸出
  - 電源要求 : AC 220 V, 50 Hz  
功耗 : 30 W (於 POWER SW ON 時)  
3 W (於 POWER SW STANDBY  
時)
  - 體積 : 380 (寬)×161 (高)×258 (深)  
mm (包括腳)
  - 重量 : 約 5.5 kg (UX-2000)  
約 5.7 kg (UX-1000)
  - 附件 : 交流電源線×1  
遙控器 (RM-RXU1000)×1  
電池 "R6/AA (1.5F)"×2 (用於遙控  
器)  
FM 調音天線×1  
環形天線座×1  
揚聲器保護套×2

設計以及規格若有變更,恕不另行通知。

JVC  
VICTOR COMPANY OF JAPAN, LIMITED

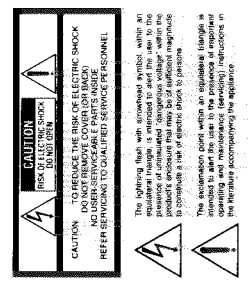
承蒙您選購 JVC 公司的產品，謹致感謝。在使用之前，請仔細閱讀本使用說明書，以獲得理想的使用效果並更長的使用壽命。



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警告：為了防止火災以及觸電，請勿讓本機淋雨受潮。



特點介紹

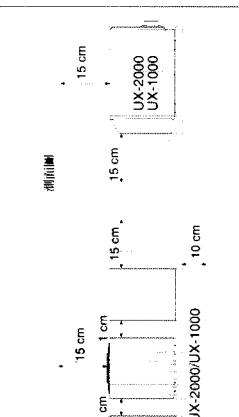
- 微型組合音響設備
- 用于產生低頻音響的有源低音 (Active Bass-Boost) 產生電路
- 自動靜音 (AUTO MUTE)
- 36 級遙控器
- 多功能 CD 唱機
- 最多 30 個的編碼播放
- 重複播放
- 連續播放
- 具有超級立體聲 (STEREO) 能力的立體聲數字合成調諧器
- 搜尋/自動調諧
- 自動靜音調諧
- 定時器/睡眠功能
- 帶睡眠音響功能的定時器/睡眠功能
- 睡眠音響功能可以最大設定到 20 分鐘
- 調光鍵
- 光學數字輸出
- 調低音輸出

安全須知

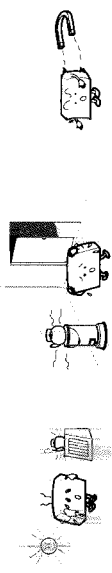
- 為了預防觸電、火災以及故障
- 1. 即使將電源插頭 (POWER) 拔出後，仍將會有一些電壓存在。因此，為了安全起見，若您長期不使用的時候，請將電源插頭從牆上的交流電源插座上拔下來。
- 2. 切勿用濕手接電源線。
- 3. 當您想要將電源線從牆上的電源插座上拔下來時，務請拿住插頭拔。切勿拿住電源線。
- 4. 如果發現電源線有損壞、脫落或者接觸不良，請與附近的銷售商聯絡。
- 5. 切勿過分彎折，或者拉長，使用電源線。
- 6. 請勿將任何物品或電線纏繞在電源線上。
- 7. 請勿將任何物品或電線纏繞在電源線上。
- 8. 切勿將任何物品或電線纏繞在電源線上。
- 9. 如果發現電源線有損壞、脫落或者接觸不良，請與附近的銷售商聯絡。
- 10. 將電源線從牆上的電源插座上拔下來，並且與銷售商聯絡。

注意：

- 良好的通風
- 為了避免發生觸電和火災的危險以及防止損壞本產品，請按下列要求放置。
- 1. 前面：無障礙物並留有開放空間。
- 2. 後面/上面/下面：無障礙物，須按圖中所示尺寸放置。
- 3. 底部：放置於水平表面。置於高 10cm 以上的台面上，保持通風所需的適當空間。



使用須知



切勿在直射陽光下使用本機，或放在溫度高達 40 °C 以上的場所使用。

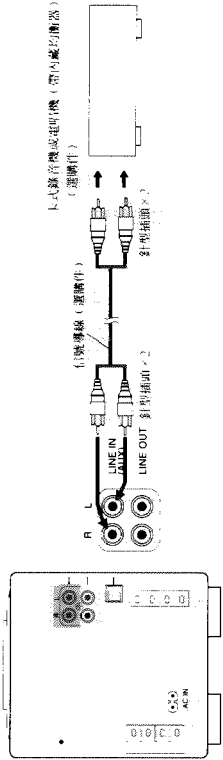
1. 避免放置於下列場所
  - 有振動之處。
  - 有潮濕之處，諸如浴室之類。
  - 接近磁帶、磁盤等磁場之處。
2. 注意及避
3. 結露
4. 於下列情況，機內有可能結露，這時裝置有可能不能正常工作。
  - 剛打開暖氣器的房間。
  - 有煙霧，或者過於潮濕的場所。
  - 從寒冷的房間直接移至溫暖的房間。

4. 音量的調節
5. 安全機構
6. 請勿將卡式錄音帶等物件放置於揚聲器附近
7. 不要讓本機接近電視機
8. 機殼的清潔工作
9. 當使用耳機收聽的時候



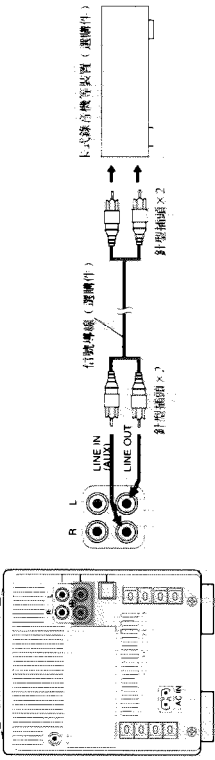
外用聲場裝置的連接

- 連接卡式錄音機或唱碟機等裝置（線路輸入）（AUX）  
本機可外接的卡式錄音機或唱碟機來接收播放或音源的聲音。



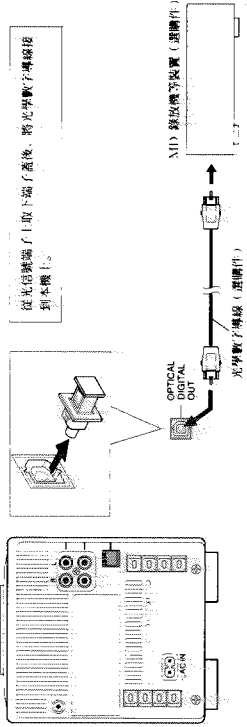
● 連接卡式錄音機等裝置（模擬輸出）

當從本機的 CD 唱機或收音機錄音至外部的卡式錄音機等裝置時，請將本機的線路輸出端子用導線接到卡式錄音機等裝置的輸入端子上。



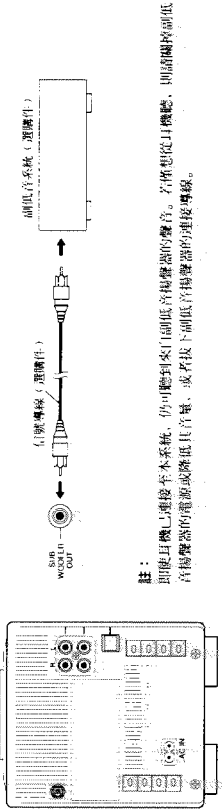
● 連接 MD 錄放機等裝置（數字輸出）

數字信號信號可由本機的 CD 唱機直接傳送到外部的帶光信號輸入端子的 MD 錄放機等裝置。這時，請將本機的 CD 光學數字輸出端子用導線接到 MD 錄放機等裝置的光信號輸入端子上。



- 做此連接時需使用光學數字導線（選購件）。詳細說明請參照 MD 錄放機等裝置的使用說明書。

- 連接副低音系統（副低音輸出）  
本機可外接 HVC 副低音系統。

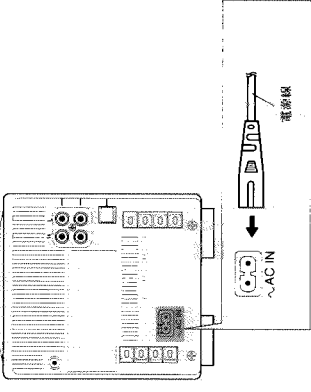


註：  
即使耳機已連接到本系統，仍可聽到來自副低音揚聲器的聲音。若僅從主機聽，則請關閉副低音揚聲器的電源或降低其音量，或者接上副低音揚聲器的連接導線。

註：  
關於外接裝置的連接及其操作，請參照相應裝置的使用說明書。

電源

- 連接交流電源線。

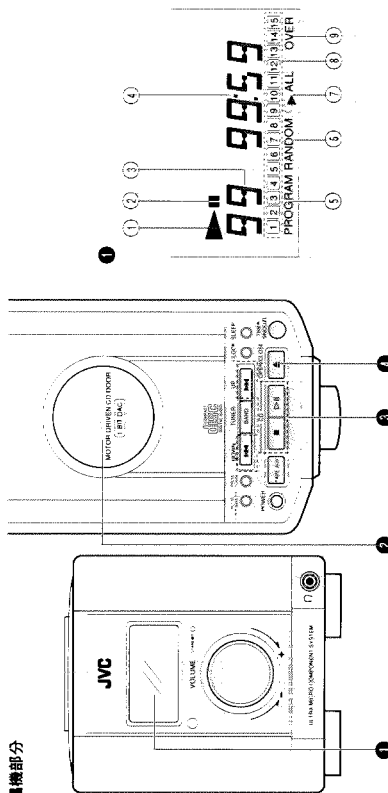


- 注意：
1. 請務必使用配備的 JVC 電源線，以防功能失靈或者損壞設備。
  2. 出門或者長期不使用本機時，請將電源插頭從電源插座上拔下。

- 註：
- 若停電或電源線斷路取下，定時/時鐘設定即被清除，恢復供電後將重新設定時鐘。

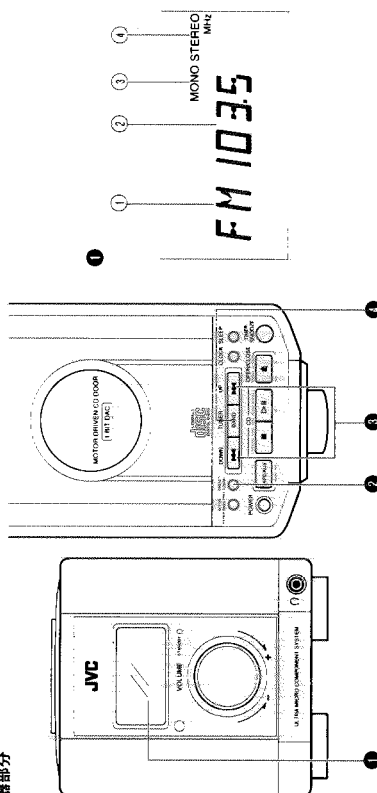
## 各部件的名稱以及功能

### CD 唱機部分



- 顯示部**
- ① 播放指示燈 (▶)
  - ② 暫停指示燈 (⏸)
  - ③ 功能／樂曲號碼顯示
  - ④ 播放時間顯示
  - ⑤ 程序方式指示燈 (PROGRAM)
  - ⑥ 隨機播放指示燈 (RANDOM)
  - ⑦ 重複播放指示燈 (◀▶)
  - ⑧ 樂曲號碼顯示
  - ⑨ 超過指示燈 (OVER)
- CD 托架**

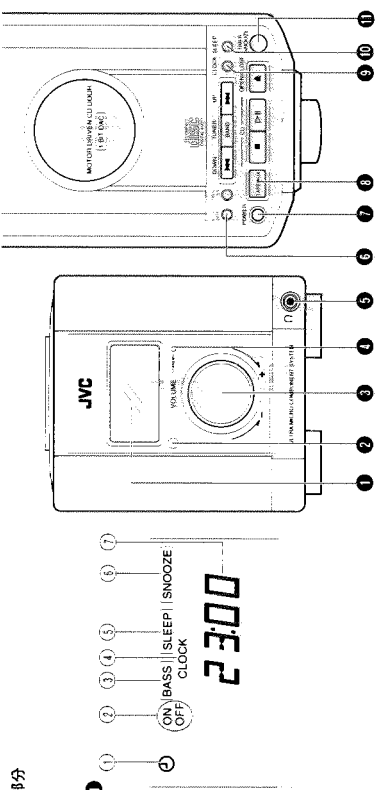
### 調諧器部分



- 顯示部**
- ① 波段指示燈
  - ② 無線電頻率顯示
  - ③ 頻道開關方式顯示
  - ④ 靜音指示燈 (MICO)
  - ⑤ 立體聲指示燈 (STEREO)

- ⑥ 預設調諧鍵 (PRESET TUNING)**
- ⑦ 調諧鍵 (UP/DOWN)
  - ⑧ 調諧器/波段鍵 (TUNER/BAND)
- 按壓此鍵選擇調諧器方式  
按壓此鍵選擇波段。

### 組合部分

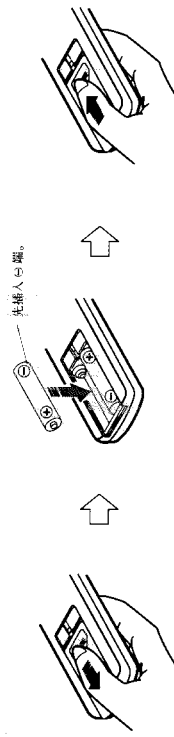


- 顯示部**
- ① 顯示部
  - ② 定時方式指示燈 (ON/OFF)
  - ③ 有源超低音指示燈 (BASS)
  - ④ 時鐘指示燈 (CLOCK)
  - ⑤ 睡眠指示燈 (SLEEP)
  - ⑥ 靜音指示燈 (SNOOZE)
  - ⑦ 時鐘顯示
  - ⑧ 音電平顯示
  - ⑨ 遙控感應部分

### 遙控器

#### 使用前的準備工作

- 將電池裝入遙控器
- 1. 打開遙控器背面的電池蓋。
- 2. 裝入 2 節 "R6/AA (1.5V)" 號電池。
- 裝入時請按圖所示的方向裝，不要將 ⊕ 端了弄錯。











#### 遙控器的使用方法

- 對準遙控器感應部分，在 7 米內操作。
- 當以圖表置成一定的角度使用遙控器時，其遙控距離會減少。
- 不要讓遙控器感應部分受到強烈的直射陽光或燈光照射。
- 儲存在遙控器與遙控器感應器之間沒有障礙物。

單線收音 (COMPU PLAY)

即使電源設定在待機 (STANDBY) 位置, 也可按壓下述鍵接  
而電源並選擇音源。

各功能	操作
  	輸入C口信號, 按壓此鍵組, C口信號的收音機開始。
 	按壓此鍵組, 調諧器快速透過。
  	雙節可以連接至輔助端子 (輔助輸入 (輔助) LINE IN (AUX))。

當按壓 (▲) OPEN/CLOSE 鍵時, 音源不會轉換, 但CD 托架  
會打開或關上。

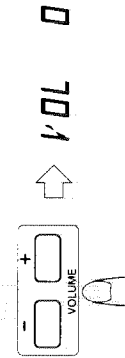
注意:

- 關閉電源時, 定製按壓 POWER 鍵組。
- 遙控器上的 COMPU PLAY 鍵與主機上的具有相同的功能。

音量、音調和其它控制

音量 (VOLUME) (使用遙控器)

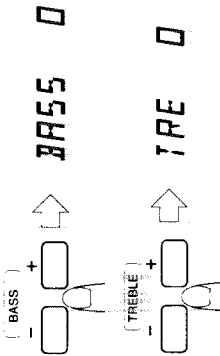
↑: 用來增加音量。  
↓: 用來減少音量。  
(音量範圍從 VOL. 0 至 VOL. 50)



● 當電源接通時, 聲音從音壓水平 0 (零) 漸漸增加到電源關閉  
前所使用的電平。(在靜音方式進行中, 操作 VOLUME 鍵  
或控制按鈕即判斷靜音操作。)

低音/重音 (BASS/TREBLE) (使用遙控器)

要設定低音或重音電平, 按壓相應的鍵。電平設定範圍在 -6 到  
6 之間。



有源超低音產生器

ON: 低音 (BASS) 指示燈點亮。設定於此位置以啟動有源超  
低音產生 (ACTIVE HYPER-BASS PRO) 音。  
OFF: 低音 (BASS) 指示燈熄滅。若不需要有源超低音產生  
(ACTIVE HYPER-BASS PRO) 音, 請設定於此位  
置。

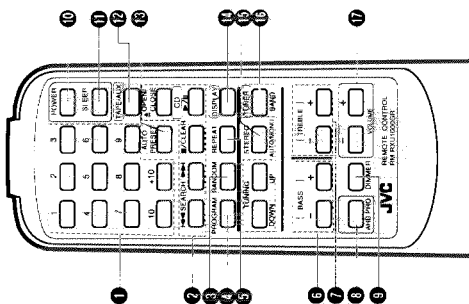
調光鍵 (DIMMER) (使用遙控器)

● 當電源接通時:  
按壓此鍵調低顯示燈的亮度。再按壓一次此鍵, 顯示燈恢復  
通線亮度。  
● 當電源關閉時:  
要觀看時鐘顯示時, 按壓此鍵: 顯示燈亮 10 秒鐘後熄滅。  
(電錶關閉時。)



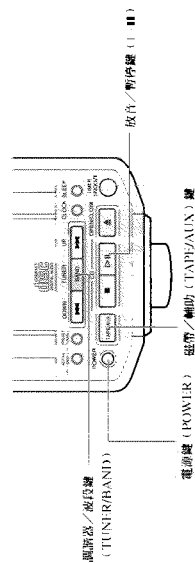
使用遙控器可做下列各項操縱。

● 仔細檢查各個操縱的功能, 並且正確使用它們。



- 1 樂曲號碼鍵 (第1號到第10號, +10)
- 2 頻道電台鍵 (第1號到第10號, +10)
- 3 CD操作鍵
- 4 播放/暫停鍵 (▶/||)
- 5 播放/暫停鍵 (▶/||)
- 6 播放/暫停鍵 (▶/||)
- 7 播放/暫停鍵 (▶/||)
- 8 播放/暫停鍵 (▶/||)
- 9 播放/暫停鍵 (▶/||)
- 10 播放/暫停鍵 (▶/||)
- 11 播放/暫停鍵 (▶/||)
- 12 播放/暫停鍵 (▶/||)
- 13 播放/暫停鍵 (▶/||)
- 14 播放/暫停鍵 (▶/||)
- 15 播放/暫停鍵 (▶/||)
- 16 播放/暫停鍵 (▶/||)
- 17 播放/暫停鍵 (▶/||)

電源的接通與斷開



電源的接通與斷開

● 接通電源:



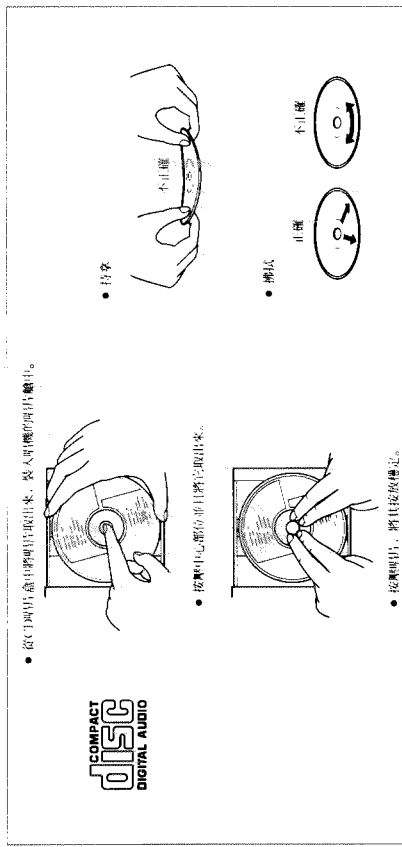
● 斷開電源:



## 有關 CD

由於危險的、抽煙的、嗜酒的項目會損壞機器，因此必須注意下列事項：

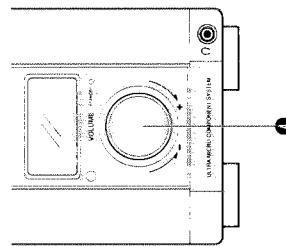
1. 可用的 CD 唱片  
請使用有所示標記的 CD 唱片。
2. 關於使用 CD 唱片的注意事項
  - 切勿觸摸如圖鏡面反射的、鏡面發亮的表面。
  - 切勿在有標記的表面上塗寫任何東西。
  - 切勿觸曲 CD 唱片。
3. CD 唱片的保管
  - 將 CD 唱片從機器取出後，應立即取出盒。
  - 切勿讓唱片接觸於陽光下、吸塵器等的吸塵中、濕氣以及灰塵之中。
4. CD 唱片的清潔
  - 在將 CD 唱片裝入機器之前，請用柔軟的布拭去灰塵、污穢以及指印。應從中心往邊緣方向擦拭。
- 切勿使用酒精、發性汽油、唱片清潔劑以及抗靜電噴霧劑。



## CD 唱片的放音

播放盤 CD  
下面為播放盤 CD 之例，假定 CD 中有 12 個樂曲，總播放時間為 48 分 57 秒。

如下所示進行操作



- 打開 CD 托架。(電源接通。)
- 有標記的面朝上放入 CD 並關上 CD 托架。
- 按開播放鍵。
- 隨著樂曲的播放，樂曲號碼逐漸變亮。
- 調節。

註：  
按開 II 鍵關上 CD 托架時，CD 托架 關上即開始播放。

● 8mm 水 CD 可以不用調配器在此裝置上使用。

● 若要在播放 CD 時停止播放

在播放期間，按壓停止鍵(II)鍵來停止播放。



● 顯示樂曲數和總播放時間。

● 若暫停 CD

按壓 II 鍵來暫停播放(II)指示燈點亮。當再次按壓此鍵時，CD 將從暫停的位置開始重新播放。

注意：

● 當更換 CD 時，按停止/清除鍵(III)，在取出 CD 前，確認 CD 是否已完全停止。

註：

- 如果沒有 CD 在內，"NO DISC" 會出現在顯示器上。CD 而後，此顯示器會出現。
- 當 CD 變換或切斷時，或 CD 面朝上時，將會出現下面的指示。
- 當發生這種情況時，先將 CD 從托架中取出，重新檢查 CD 是否再次插入。

00 0000

- 請勿在過高或過低的溫度下使用本機。推薦的溫度範圍為 5°C 到 35°C。
- 播放後，請取出 CD。
- 若在播放期間發生奇異錯誤，請降低音量。

跳越放音

● 在放音中，可以往前跳越至下一樂曲的面頭或者往後跳越至前一樂曲的面頭或者往後跳越至前一樂曲的面頭。當您要選聽的樂曲的面頭被找到後，就會自動開始播放。

跳下一支樂曲...

若要聽下一支樂曲，按壓 II 鍵便可跳過至下一樂曲的面頭。

跳前一支樂曲...

若要聽前一支樂曲，按壓 II 鍵便可跳過至前一支樂曲的面頭。如果快速按壓 II 鍵便可跳過至前一支樂曲的面頭。

搜尋放音 (在 CD 唱片中搜尋您所需要的某個位置)

● 若要在 CD 唱片中搜尋您所需要的某個位置，可以在放音中，用快進或快退或者暫停搜尋來進行。按此鍵來快速反向搜尋。

若要暫停搜尋，可按此鍵。



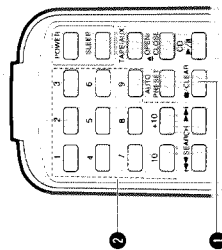
若要快速搜尋，可按此鍵。

● 按壓 II 鍵，搜尋開始的時候，然後逐漸停頓。

● 在搜尋的過程中，您可以聽到較重的聲音(此為普通音量的四分之一)。當您聽到您所需要之處時，請按壓 II 鍵。

直接進入播放 (使用遙控器)

● 按壓 II 鍵，樂曲號碼顯示器可從指定的樂曲的面頭開始播放。不必按壓 II 鍵。(此功能不能用於播放音中。)



● 按 II 鍵，樂曲號碼顯示器可從指定的樂曲的面頭開始播放。

● 按 II 鍵，樂曲號碼顯示器可從指定的樂曲的面頭開始播放。

● 根據樂曲號碼，按壓與之相符的樂曲號碼鍵，以選擇 1 至 10 的樂曲號碼。

● 若要選擇 11 以上的樂曲號碼，根據所要選擇的樂曲號碼的數字按壓 II 鍵，然後按樂曲號碼鍵(譬如，要選擇第 20 號樂曲，先按壓 II 鍵，然後按樂曲號碼鍵 10)。

● 110 鍵：

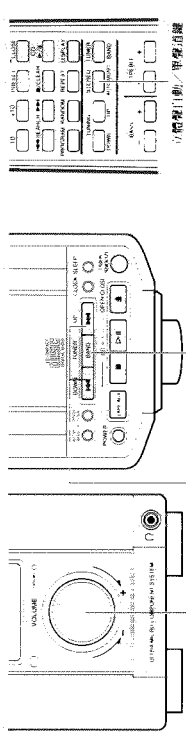
每按壓 II 鍵，數字便增加 10。先按壓 II 鍵設定十位數，然後按壓 II 鍵設定各位數。

● 若在放音中跳至另一支樂曲

當按壓 II 鍵時，顯示器顯示出指定的樂曲號碼，放音從指定樂曲的面頭開始進行。

無線電廣播的接收

按照下列順序操作



- 1. 按壓 TUNER/BAND 鍵。
  - 當廣播被接通，被選及密碼頻率被顯示出來。
- 2. 選擇波段。
- 3. 調出您所要聽的電台。

立體聲 自動/單聲道 (STEREO AUTO/MONO) 鍵 (使用遙控器)

自動方式：  
若要接收或收音或收音 FM 立體聲廣播，可設於此位置。當收到 FM 立體聲廣播時，STEREO 指示燈會點亮。  
MONO：  
FM 立體聲接收收音音過大時，請設定於此位置，常用單聲道方式 (MONO) 調入其它的電台時，本機則自動轉入自動方式。

搜尋調諧

按壓 UP 或 DOWN 鍵，或 秒鐘以上。裝置便進入選台調諧方式並自動調諧到最近的 個電台；這樣便能聽到廣播。

手動調諧

每按壓一次 UP 或者 DOWN 鍵，便會跳過正在收音的頻率半波段。FM 和 AM 的跳過頻寬分別為 50 kHz/100 kHz (FM)，9 kHz/10 kHz (AM)。



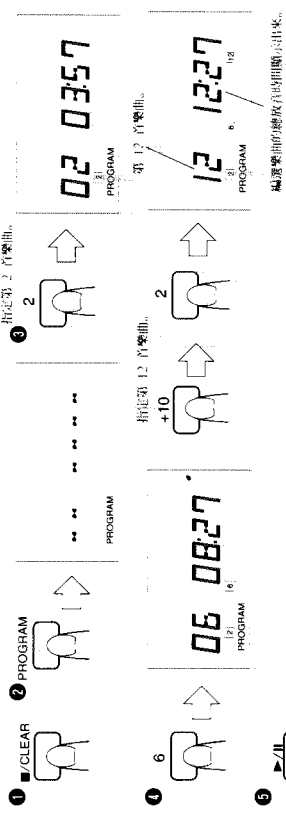
- 註：
  - 當由於強過電台的信號太強不能找到希望的電台時，請短促地按壓 UP 或 DOWN 鍵來進行手動調諧。
  - 當將電台鍵設於 STANDBY (待機) 方式，或設於其他方式 (CD 或 TAPE/AUX) 時，最後所收音的電台的頻率便儲存在於記憶裝置中。當再次接通電源，和按壓 TUNER/BAND 鍵時，將會收音到同一電台。

自動預設調諧 (使用遙控器)

此功能根據廣播信號的頻率，來搜尋正在播放的波段，並自動地將前面的 15 個電台頻率儲存在於記憶裝置。  
● 按 AUTO PRESET 鍵 2 秒鐘以上。廣播電台的頻率將會按頻率增加的順序自動存儲在記憶裝置中。(各頻道為 15 個電台)

編碼收音 (使用遙控器)

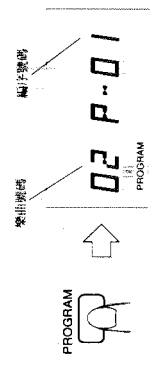
- 可以任意所需順序最多編碼播放 30 首樂曲。  
編碼樂曲的播放時間會顯示出來 (最長可達 99 分 59 秒)。  
(例：按第 2 首樂曲，第 6 首樂曲，第 12 首樂曲等的順序編碼播放時)。



- 1. 按壓 CLEAR 鍵。
  - 按壓 PROGRAM 鍵設定成編碼方式。
  - 按壓號碼鍵指定想要播放的樂曲號碼。
  - 按壓樂曲號碼鍵對指定剩餘的樂曲。
  - 當結束編碼時按壓 >|| 鍵，開始編碼播放。

確認程序的編碼...

在停止方式下按壓 PROGRAM 鍵，被編碼的樂曲將會按編碼的順序被顯示出來。



清除被編碼的樂曲...

在開始播放 CD 之前按壓 CLEAR 鍵。在編碼播放期間，兩次按壓此鍵。

- 註：
  - 如果編碼樂曲的總播放時間超過 99 分 59 秒，總播放時間顯示消失。
  - 當插入樂曲數超過 16 首的 CD 時，"OVER" 指示燈會出現。

- 單曲重複 (REPEAT) 鍵 (≡) 正在播放的樂曲將被重複播放。
- 全部重複 (≡ ALL) 所有樂曲或 CD 上的編碼樂曲將被重複播放。

隨機播放 (使用遙控器)

按壓 RANDOM 鍵 (CD) 上的所有樂曲按隨機順序播放一遍。

- 1. 按壓 TUNER/BAND 鍵。
- 2. 用 TUNER/BAND 鍵選擇 FM 波段。
- 3. 調出您所需要的電台。
- 4. 按壓調諧鍵 "+10"，然後按壓鍵 "S" 2 秒鐘以上。  
(如果預設電台的顯示窗中有 "LS" 在閃爍，便說明該電台已被儲存完畢)。
- 5. 重複上述步驟，預設其它各個電台。
- 6. 其它波段的預設也與上述步驟相同。
- 7. 若要取消預設電台
  - 調出所需要的電台以後，作上述第 4 步的操作。

註：

- 因為新電台的頻率將會在記憶體內取代以前的電台頻率，所以當存儲新的電台時，以前存儲的電台將會被清除。
- 當收音 AM 廣播時，若使用遙控器，則可能會有噪音。
- 如果電源線從電源插孔脫離或者發生停電超過 24 小時以上，則所有預設電台將被取消。遇到這種情況，請重新預設。





故障的檢查與排除

(保養)

睡眠定時器的操作

定時播放

並非所有問題都是嚴重的。會先檢查一下...

- 電源無法接通。
  - \* 電源線的连接是否插好了？
  - \* 牆壁沒有聲音。
  - \* 是否有耳機插著？
- CD 唱機部分
  - CD 唱機沒有聲音。
    - \* 唱片是否放好了，而是否朝下放了？
    - \* 唱片是否刮傷了？
    - \* 某些地方的放音有異常。
    - \* 唱片是否有劃傷？
- 調諧部分
  - 收音有噪音。
    - \* 調試天線。
- 定時器部分
  - 定時器不啟動。
    - \* 現在時間的設定是否正確？
    - \* 定時功能的指示 (D) 是否被顯示出來了？
- 遙控器
  - 遙控器失靈。
    - \* 遙控器的電池是否耗盡？
    - \* 遙控感應器是否受強烈光源 (直射陽光等) ？

清潔工作是極為重要的！

清潔的清潔

如果 CD 播放器上的鏡頭，會有灰塵等現象會使聲音變差。請用 CD 托架，拭擦，如圖所示清潔鏡頭。

- 用吹氣筒 (紙和機油有售) 吹掉鏡頭上的灰塵。
- 若有紋紋等刻於鏡頭上，請用細棉布擦淨。

睡眠定時器的操作

A. 在要睡覺廣播或 CD 入睡時利用此功能。

(1) 設定睡眠和聽的播放和入睡 (CD)。

(2) 按壓 SLEEP 鍵，以設定睡眠時間。

定時播放

- 可進行 CD 或廣播電台的定時播放。

操作

1. 按壓 POWER 鍵，接通電源。

2. 設定定時器。(請參看第 6 頁上的「設定定時器」)。

3. 按壓 SLEEP 鍵，按通電源。

4. 按壓 POWER 鍵，按通電源。

5. 斷開電源。

6. 定時播放將於定時器播放時間開始，並且電源將於定時器停止時間斷開。

即使電源斷開以後，該定時器仍將被儲存於記憶裝置中，第二天將於同樣的時間重播同樣的定時功能。

當接通電源時，聲音可能從音響電平 0 漸大增強至預設的音響。

若要取消定時設定

按下定時器 TIMER/SNOOZE 鍵，這樣定時器方式指示 (D) 便會消失。

註：

- 當音響設定為「VOL-」(音響電平未相定) 時，定時收音音響最為靜音。
- 若要在定時播放中停止播放，請按壓 POWER 鍵，關閉設備。
- 要增加 5 分鐘的入睡時間時...
  - 當定時播放開始時，按壓 TIMER/SNOOZE 鍵，電源關閉，定時器將在 5 分鐘後重新開始進行。(在睡眠方式狀態中，輕按指示燈會亮。)

睡眠定時器的操作

A. 在要睡覺廣播或 CD 入睡時利用此功能。

(1) 設定睡眠和聽的播放和入睡 (CD)。

(2) 按壓 SLEEP 鍵，以設定睡眠時間。

定時播放

- 可進行 CD 或廣播電台的定時播放。

操作

1. 按壓 POWER 鍵，接通電源。

2. 設定定時器。(請參看第 6 頁上的「設定定時器」)。

3. 按壓 SLEEP 鍵，按通電源。

4. 按壓 POWER 鍵，按通電源。

5. 斷開電源。

6. 定時播放將於定時器播放時間開始，並且電源將於定時器停止時間斷開。

即使電源斷開以後，該定時器仍將被儲存於記憶裝置中，第二天將於同樣的時間重播同樣的定時功能。

當接通電源時，聲音可能從音響電平 0 漸大增強至預設的音響。

若要取消定時設定

按下定時器 TIMER/SNOOZE 鍵，這樣定時器方式指示 (D) 便會消失。

註：

- 當音響設定為「VOL-」(音響電平未相定) 時，定時收音音響最為靜音。
- 若要在定時播放中停止播放，請按壓 POWER 鍵，關閉設備。
- 要增加 5 分鐘的入睡時間時...
  - 當定時播放開始時，按壓 TIMER/SNOOZE 鍵，電源關閉，定時器將在 5 分鐘後重新開始進行。(在睡眠方式狀態中，輕按指示燈會亮。)

睡眠定時器的操作

A. 在要睡覺廣播或 CD 入睡時利用此功能。

(1) 設定睡眠和聽的播放和入睡 (CD)。

(2) 按壓 SLEEP 鍵，以設定睡眠時間。

定時播放

- 可進行 CD 或廣播電台的定時播放。

操作

1. 按壓 POWER 鍵，接通電源。

2. 設定定時器。(請參看第 6 頁上的「設定定時器」)。

3. 按壓 SLEEP 鍵，按通電源。

4. 按壓 POWER 鍵，按通電源。

5. 斷開電源。

6. 定時播放將於定時器播放時間開始，並且電源將於定時器停止時間斷開。

即使電源斷開以後，該定時器仍將被儲存於記憶裝置中，第二天將於同樣的時間重播同樣的定時功能。

當接通電源時，聲音可能從音響電平 0 漸大增強至預設的音響。

若要取消定時設定

按下定時器 TIMER/SNOOZE 鍵，這樣定時器方式指示 (D) 便會消失。

註：

- 當音響設定為「VOL-」(音響電平未相定) 時，定時收音音響最為靜音。
- 若要在定時播放中停止播放，請按壓 POWER 鍵，關閉設備。
- 要增加 5 分鐘的入睡時間時...
  - 當定時播放開始時，按壓 TIMER/SNOOZE 鍵，電源關閉，定時器將在 5 分鐘後重新開始進行。(在睡眠方式狀態中，輕按指示燈會亮。)

## 4.Location of Main Parts

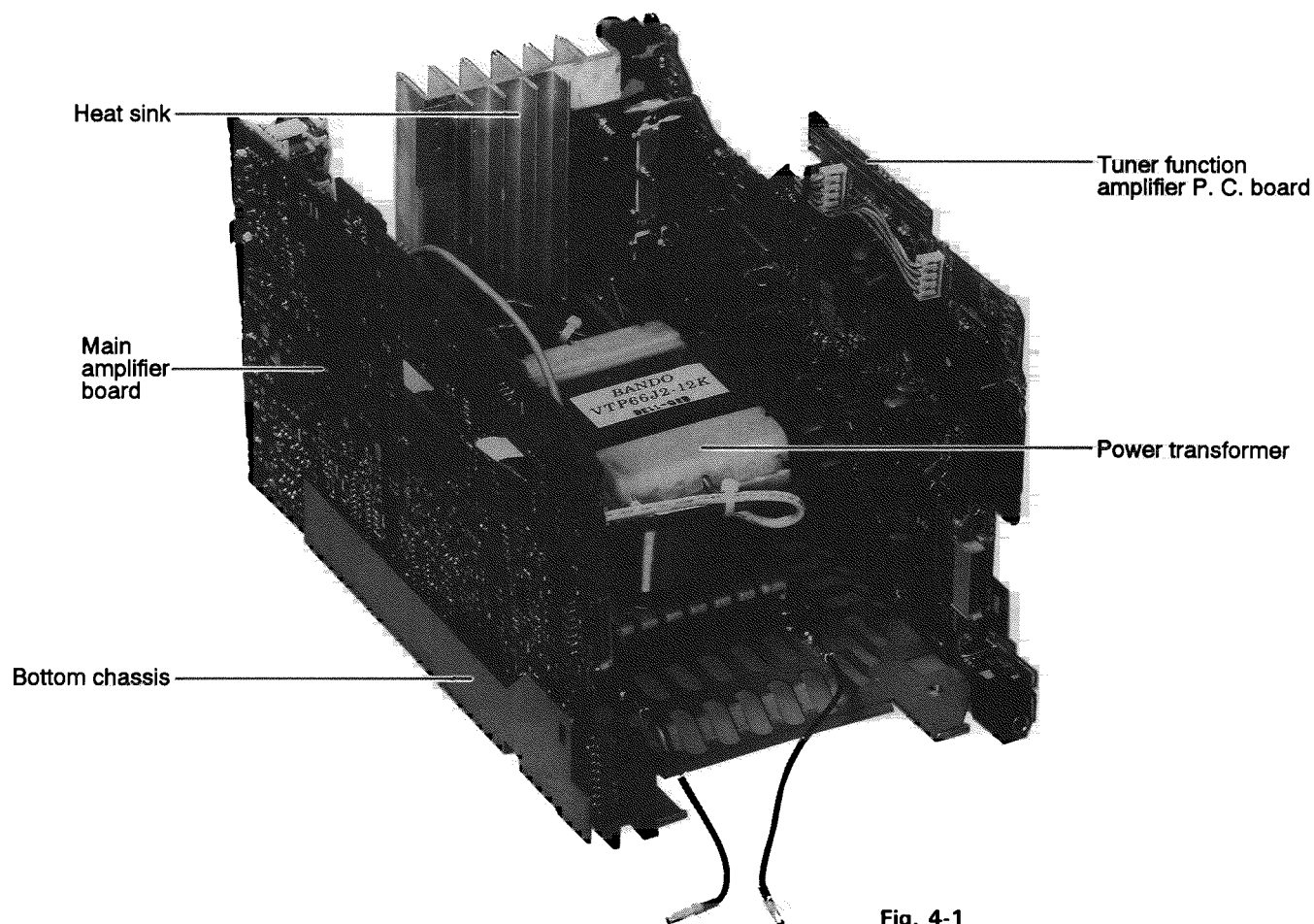


Fig. 4-1

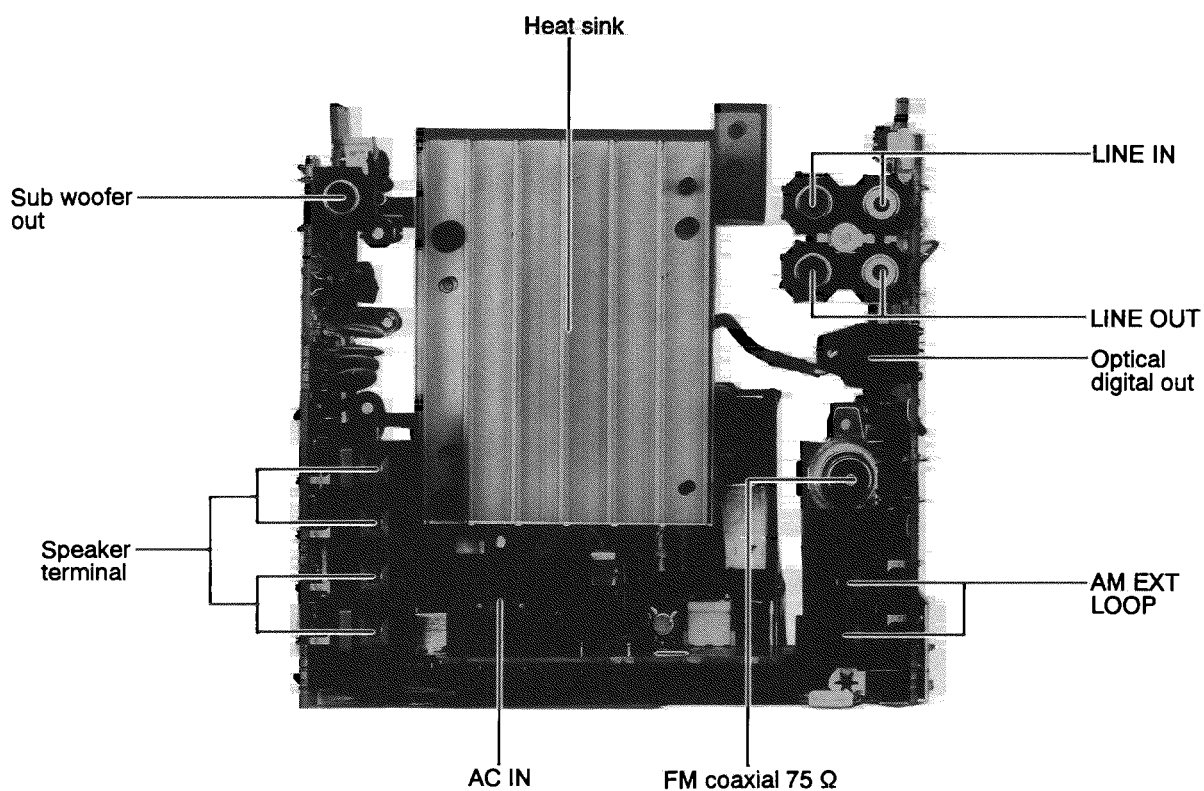
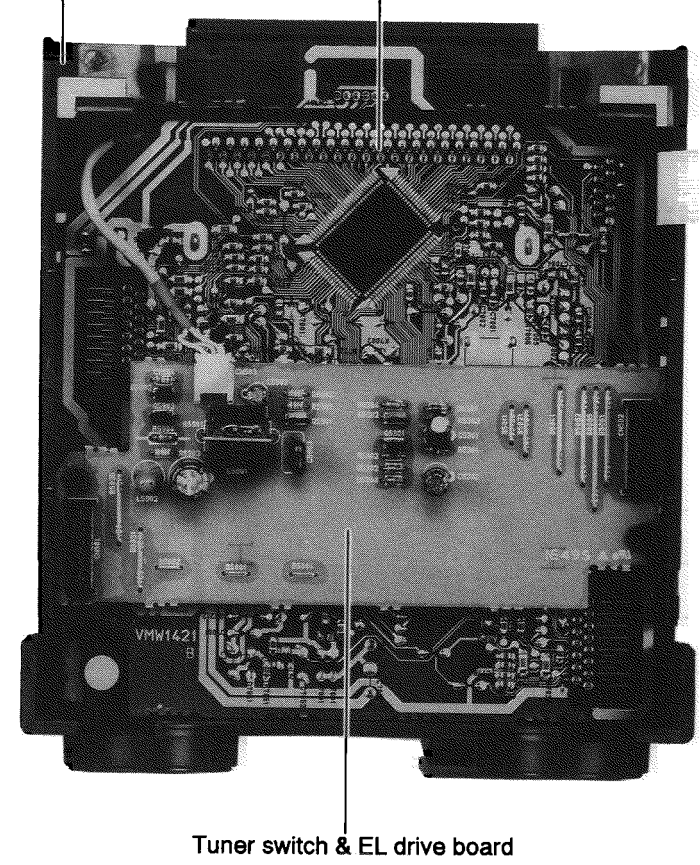
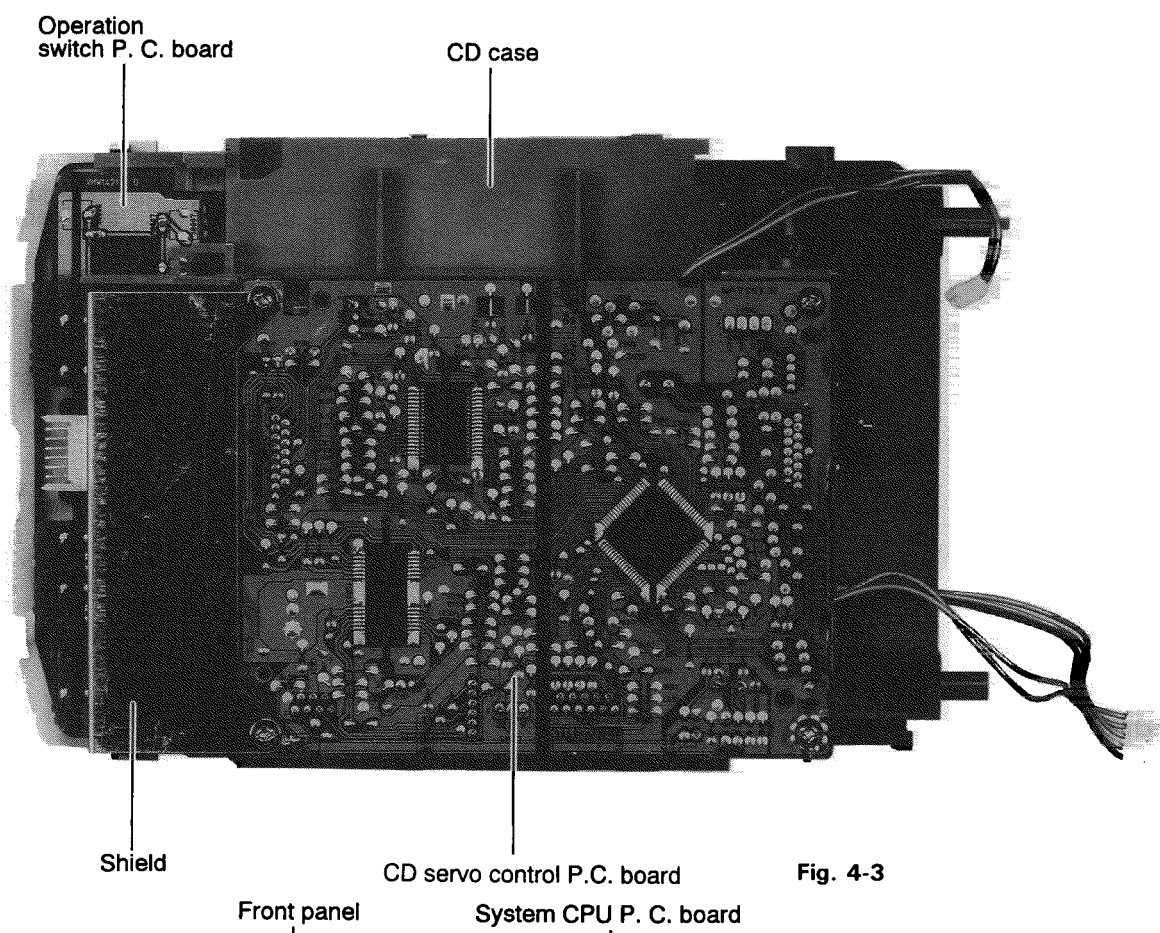


Fig. 4-2



## 5. Removal of Main Parts

### ■ Removing the rear cover and side panel (See Figs. 5-1~5-4)

1. • Remove the six screws ① retaining the rear cover from behind the body.  
• From the bottom face of the body, remove the four screws ② retaining the rear cover.  
• After passing the lock pawls at the speaker terminals through the position in Fig. 5-1, remove the rear cover.

2. • Remove the two screws ③ retaining both of the right and left side panels.  
• By moving the side panels (right and left sides) while pulling out the panels toward the rear side, disengage the upper two engagement sections, and dismount the panels while expanding them toward the front side.

※ For assembling (the rear cover and side panels), mount the upper two engagement sections while aligning the same in place at first, and assemble the rear cover and side panels while plugging (the cover and panels) toward the front side.

3. The side fitting should be pulled out upward.

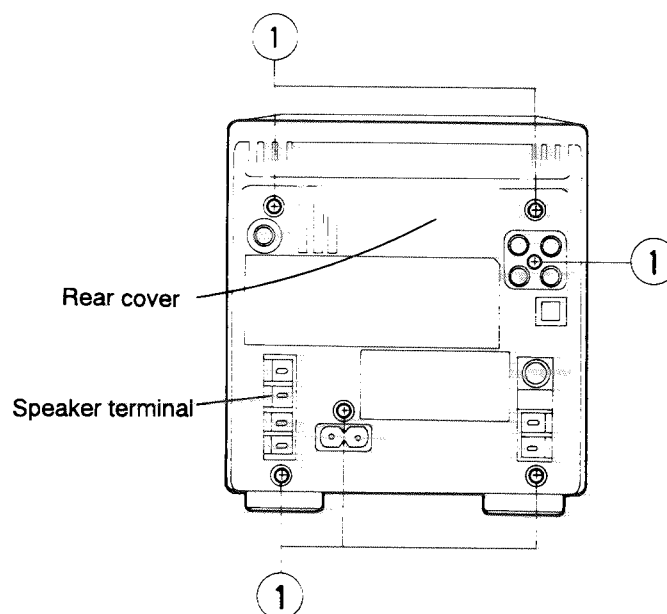


Fig. 5-1

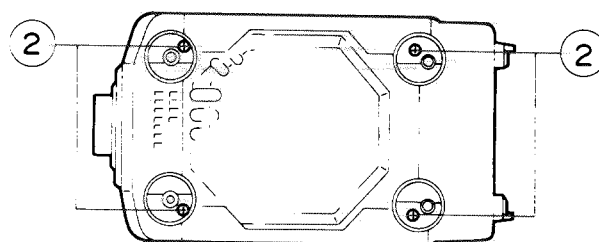


Fig. 5-2

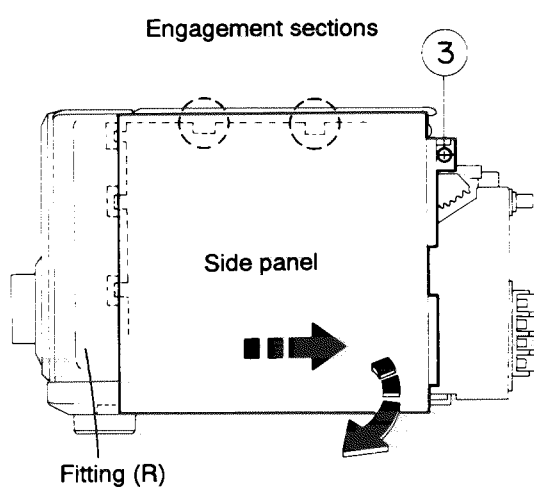


Fig. 5-3

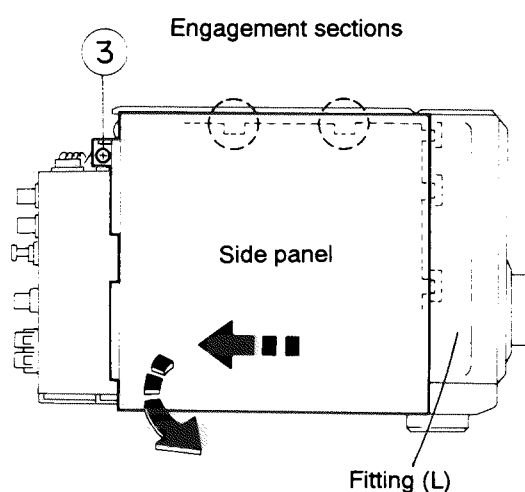


Fig. 5-4

## ■ Removing the CD player assembly

(See Figs. 5-5~5-7)

1. Remove the rear cover from behind the body.
2. Remove the side panels and fittings (L and R).
3. After removing the three screws ④ from behind the body, dismount the heat sink.
4. • From the side of the body, remove the two screws ⑤ retaining the CD player assembly.  
• Remove the one screw ⑥ retaining the tuner function amplifier P.C. board.  
• Remove the connector wires from the connectors CN643 and CN635 on the tuner function amplifier P.C. board, and then remove the card wires connected to the connector CN631 CD servo control P.C. board.  
• Remove the connector wire from the connector CN301 on the main board.
5. Remove the CD player while pulling it out toward the rear side.

Then, the connector CN801 connected to the connector CN781 on the LCD microcomputer P.C. board of the front assembly will be disconnected at the same time.

※ To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C. board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C. board.

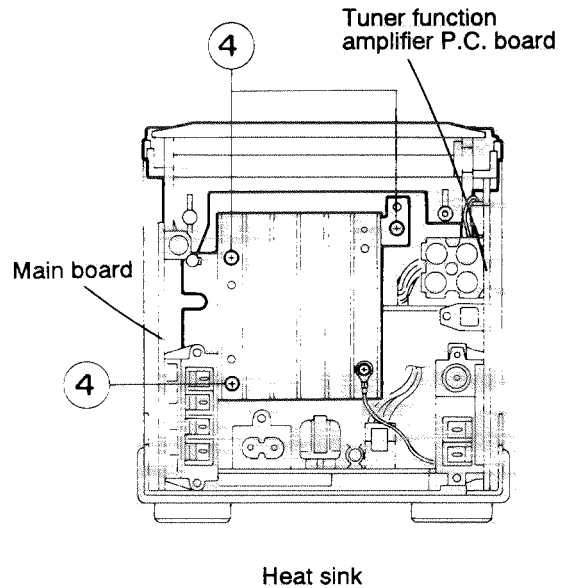


Fig. 5-5

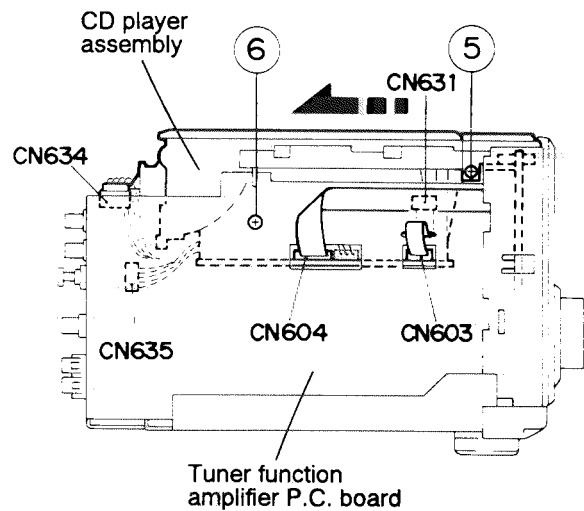


Fig. 5-6

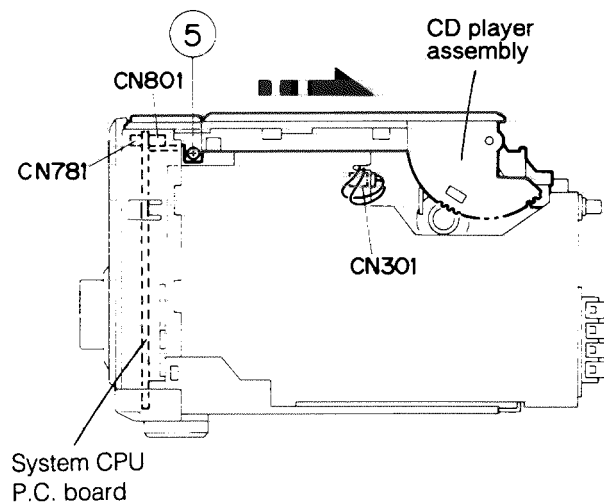


Fig. 5-7

## ■ Removing the CD player section

(See Figs. 5-8-5-13)

1. Remove the CD player assembly.
2. Removing the CD player assembly
  - Remove the two screws ⑦ retaining the shield.
  - Remove the remaining two screws retaining the CD servo control P.C. board.
  - Remove the card wire from the connector CN602 on the CD servo control P.C. board connected to the CD mechanism, and also the card wire from the connector CN601.
3. Removing the CD mechanism assembly
  - Remove the four screws ⑧ retaining the CD motor drive P.C. board.
4. Removing the CD motor drive P.C. board
  - Remove the two screws ⑨ retaining the CD motor drive P.C. board.
  - After disengaging the belt from the motor pulley, remove the CD motor drive P.C. board.
5. Removing the CD door assembly
  - Disengage the two engagement sections on both the right and left sides of the CD door while expanding the sections outward.
6. Removing the operation switch P.C. board
  - Remove the top panel while expanding the right and left side pawls outward.
  - Remove the operation switch P.C. board upward.

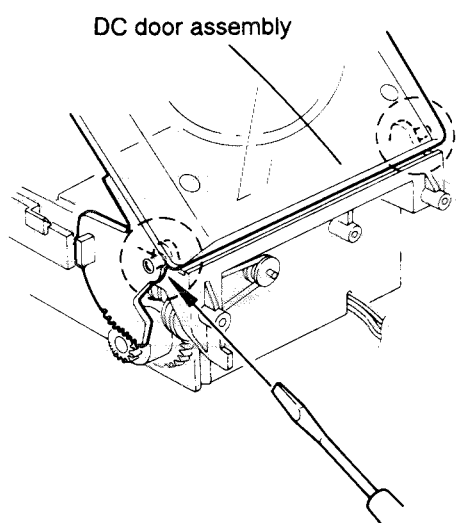


Fig. 5-10

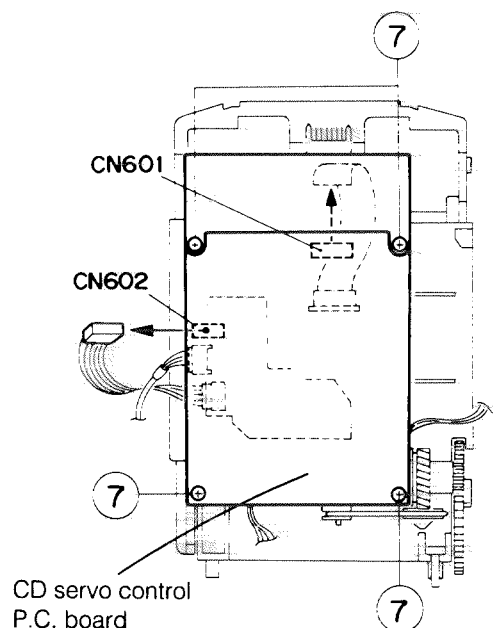


Fig. 5-8

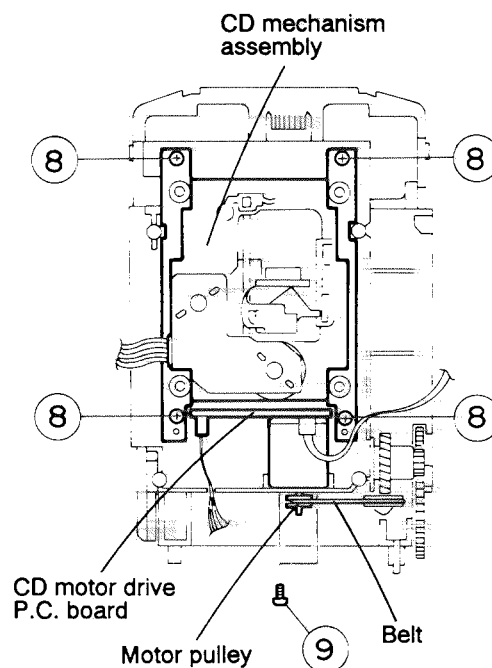


Fig. 5-9

## ■ Removing the tuner function amplifier P.C. board (See Figs. 5-14~5-16)

- Remove the connectors CN633 and CN632 on the tuner function amplifier P.C. board by pulling them out respectively from the front assembly.
- Remove the card wire from the post pin W6001 on the tuner function amplifier P.C. board.

## ■ Removing the main board

1. Remove the earth wire from the post pin CN531 on the main board.
2. Disconnect the main connector CN300 on the main board connected to the power supply P.C. board while expanding the main board outward.
3. Disconnect the connectors CN302 and CN303 on the main board toward the rear side by pulling the connectors out from the front assembly.

## ■ Removing the power supply P.C. board

1. After removing the two screws ⑩, disconnect the connector CN903 on the power supply P.C. board connected to the main board.
2. From the connectors CN902 and CN901, remove the connector wires outgoing from the power supply transformer.
3. While disengaging the power supply P.C. board and holder engagement, remove the power supply P.C. board.

## ■ Removing the power supply transformer assembly

- Removing the four screws ⑪. From the connectors CN902 and CN901 on the power supply P.C. board, remove the connector wire connected to the power supply P.C. board.

※ For assembly, position the primary side upward, and perform assembly of the respective parts.

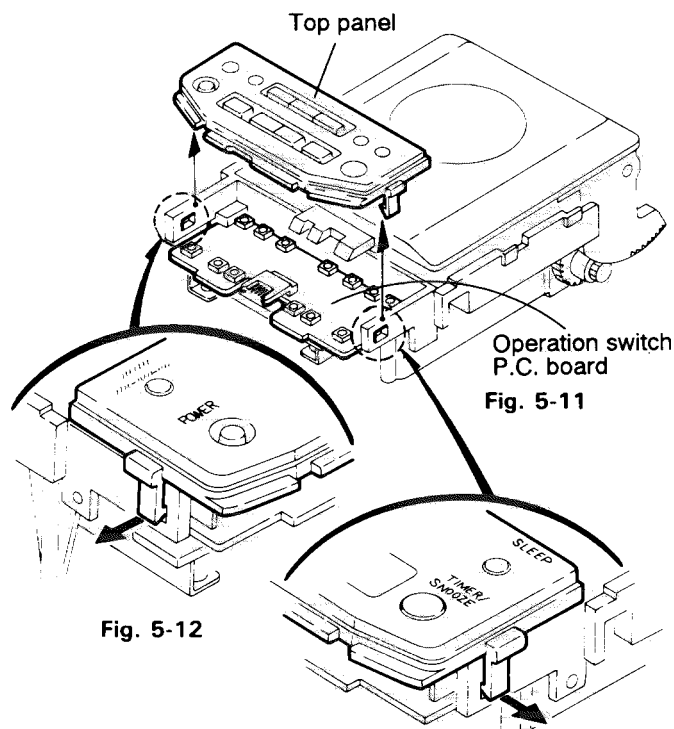
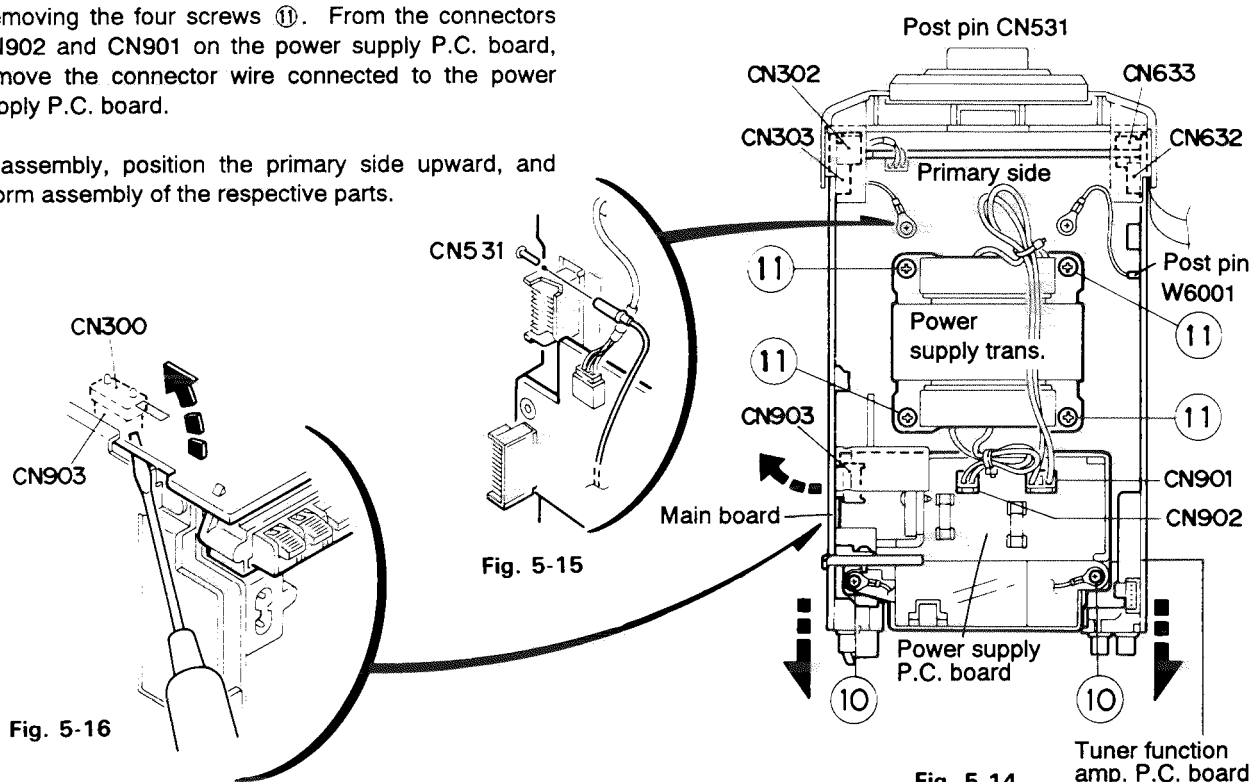


Fig. 5-12

Fig. 5-13

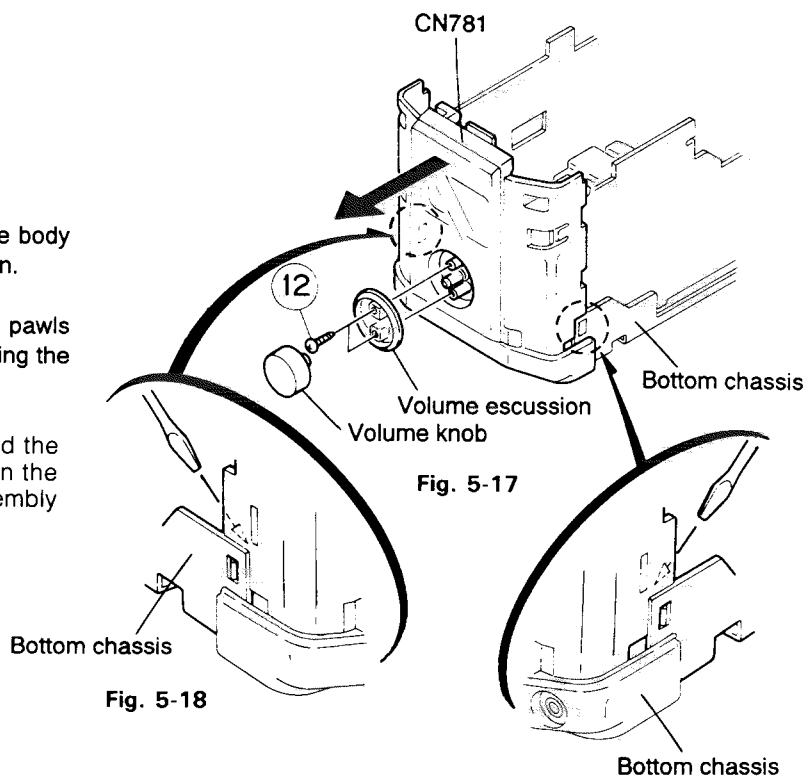




## ■ Removing the front assembly

(See Figs. 5-17~ 5-19)

1. Remove the rear cover from behind the body.
2. Dismount the CD player assembly.
3. Remove the side panels and fittings (L and R).
4. After removing the knob from the front face of the body and two screws ⑫, dismount the volume escusion.
5. By using a driver and other tool, remove the two pawls provided on both the right and left sides for engaging the front assembly and bottom chassis.
6. After removing the front panel assembly toward the front side, disconnect the connector CN781 on the system CPU P.C. board from the CD player assembly at the same time.



## ■ Removing the tuner switch EL driver P.C. board and system CPU P.C. board

(see Figs.5-20 and 5-21)

1. • While expanding the engagement sections (a) and (b) with the front cabinet, remove the tuner switch EL driver P.C. board.
- Remove the connector wire from the connector CN503 connected to the system CPU P.C. board.
2. • Remove the one screws (13).
- While expanding the engagement sections (c) and (d) with the front cabinet to outside, remove the system CPU P.C. board.

## ● Assembly method

1. Insert the power supply P.C. board into the engagement section of the power supply P.C. board holder, assemble the power supply P.C. board on the bottom chassis together with the power supply P.C. board holder.
2. Subsequent to mounting the power supply transformer, the secondary side connector wire outgoing from the power supply transformer and the primary side connector wire on the power supply P.C. board should be connected respectively to the connectors CN902 and CN901 on the power supply P.C. board.
3. Connect the connector CN300 on the main board to CN903 on the power supply board, and assemble the main board on the bottom chassis.
4. Engage the front assembly exactly to the pawl at the engagement section of the bottom chassis, and connect the connectors CN302 and CN303 on the the main board respectively to the connector CN711 on the system CPU P.C. board of the front assembly and the connector CN501 on the tuner switch EL driver P.C. board.
5. Assemble the CD player assembly while plugging the connector CN801 on the operation switch P.C. board of the CD player assembly to the connector CN781 on the system CPU P.C. board of the front assembly.
6. Plug in the connectors CN633 and CN632 on the tuner function amplifier P.C. board to the connector CN502 on the tuner switch EL driver P.C. board of the front assembly and CN761 on the system CPU P.C. board.

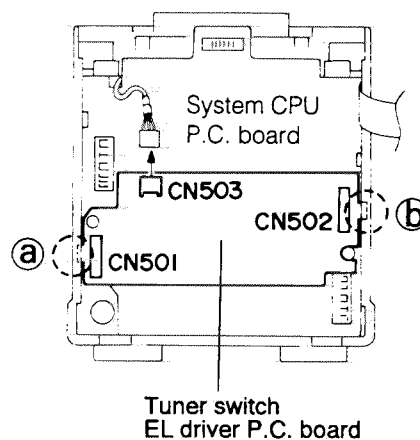


Fig. 5-20

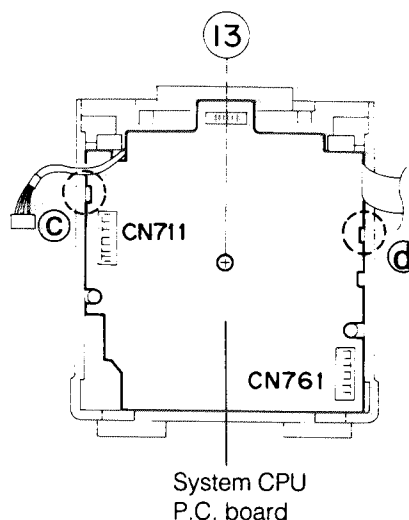


Fig. 5-21

## 6.Main Adjustment

### ■ Test Instruments required for adjustment

1. Low frequency oscillator  
( Frequency range: 50Hz to 20kHz)  
( Output : 0 dBs across 600  $\Omega$  terminating resistor )
2. Attenuator( Impedance : 600  $\Omega$  )
3. Test disc : CTS – 1000( Audio )  
: CTS – 1000 & CRG – 1211S( Optical Control )
4. Extension cord : EXTUX1000 – JIG
5. Electronic voltmeter
6. Distortion meter
7. Jitter meter : NJM631
8. TE offset meter : LTM9055

### ■ Measuring conditions (Amplifier section)

Supply voltage ..... AC110/127/230V ( 50/60Hz )

Reference output level :Speaker  
0 dBs (0.775V) / 4  $\Omega$   
: Headphone  
– 10dBs (0.245V)/ 32  $\Omega$   
:Line out  
300mV( – 8.2dBs)/ 47k  $\Omega$

Standard test frequency

: 1kHz unless otherwise specified

Reference input level.....AUX – 8dBs

Output for measuring, unless otherwise specified

: at speaker terminal J3003(Dummy load :4  $\Omega$

Posture of test..... Horizontal

### ● Standard position of function switches

Function switch .....to AUX

Active hyper – bass prop switch ..... to off

### ● Standard position of volume control

Bass treble ..... to center / flat position

Main volume adjust ..... 0 dBs output position

### ● Test remarks

1. Negative side of the input and output terminals of the testing set, shall be isolated from each other. The negative side should not be commonly connect ed when a 2channel electronic voltmeter is connected.
2. A dummy load shall be connected to the output

terminal and the lead wires of dummy load shall be as thick as possible.

### ■ Measuring condition (Tuner section)

Rating source ..... DC 12V

Power source to tuner : DC5.3V

Ference output..... Speaker : 60mW(0.49 V / 4  $\Omega$  )

Headphone : 0.066mV/ 32  $\Omega$

AM modulation ..... 400Hz, 30%

FM modulation .....400Hz deviation 22.5kHz

### ● Standard position of switches and controllers

Function switch .....to RADIO

Mode switch .....to STEREO

Bass .....0 center position

Treble .....0 center position

Active hyper – bass prop switch.....to off

### ● Tuner input position

LW / MW : Standard loop antenna

FM : Hot TP1( Extention terminal )

: GND TP2 Extention terminal )

### ● Arrangement of loop antenna

When measuring keep the loop antenna away from the set more than 20cm .In case a test item is affected by small noise ( Ex. Quieting sensitivity more than 30cm is necessary.)

### ● Remarks for alignment

1. Connect 30 pF capacitor and 33 k  $\Omega$  resistor to the output terminal of the IF sweeper in series while 0.082  $\mu$  F capacitor and 100k  $\Omega$  resistor to the input terminal in series.
- 2.Set the output level of the IF sweeper as low as adjustable.
- 3.IF alignment is not necessary for both AM and FM MPX alignment is not necessary either. All IFTs and MPX coil are non – adjusting type.

■ How to Connect the Extention Cord (EXTUX1000- JIG)

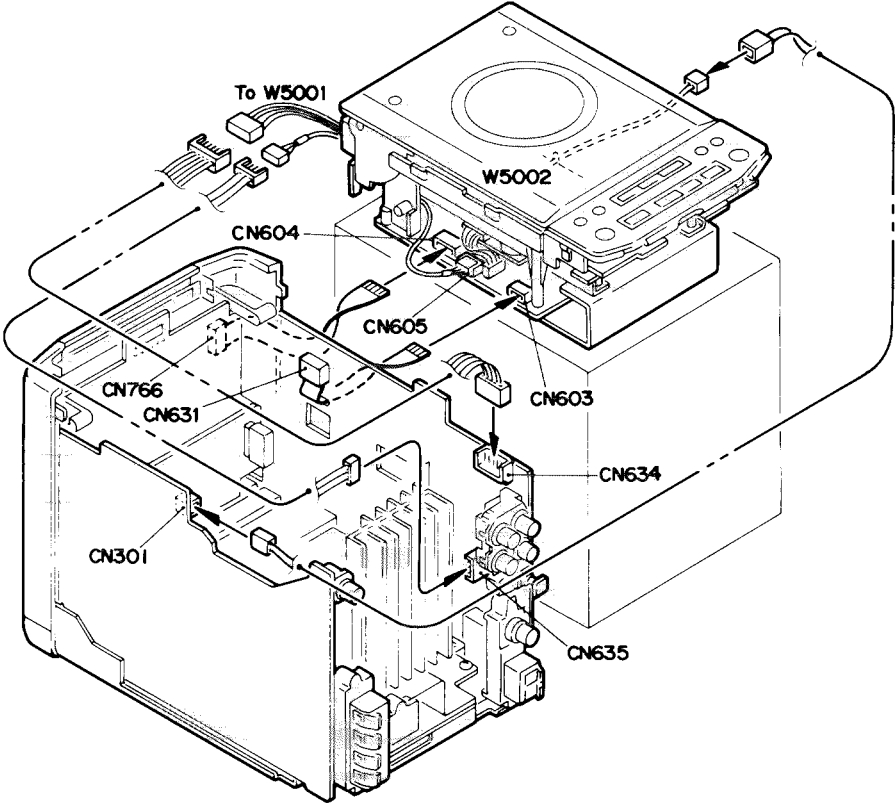


Fig. 6-1

■ Arrangement Checking Test Point

(CD servo control board)

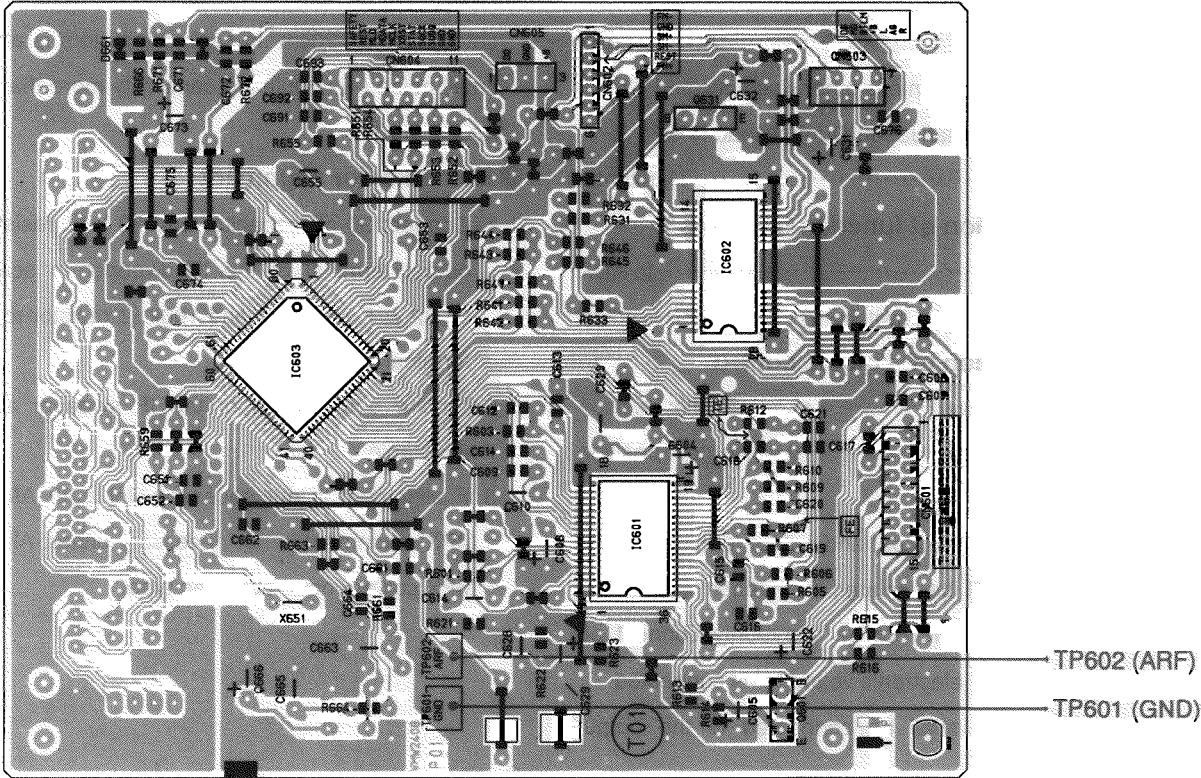
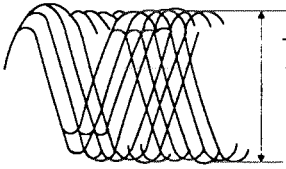


Fig. 6-2

## ■ Amplifier section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Amplifier gain check	<ul style="list-style-type: none"> <li>•Measuring instrument : Oscilloscope</li> <li>•Measuring point : AUX IN : Speaker terminal</li> </ul>	Input the 1kHz to AUX IN. Main volume is maximum. When speaker output becomes 0dB, input is $-19\text{dB} \pm 4\text{dB}$ .	$-19\text{dB} \pm 4\text{dB}$	—
2. Noise level check	<ul style="list-style-type: none"> <li>•Measuring instrument : Oscilloscope : Voltmeter</li> <li>•Measuring point : AUX IN : Speaker terminal</li> </ul>	<ul style="list-style-type: none"> <li>• Switch and volume position Function switch : AUX. Bass treble : flat</li> </ul> <p>When main volume becomes maximum, confirm that speaker output is less than 4mV. When main volume becomes minimum, confirm that speaker output is less than 2mV.</p>	<p>Less than 4mV</p> <p>Less than 2mV</p>	—
3. Line output check	<ul style="list-style-type: none"> <li>•Measuring instrument : Oscilloscope : Voltmeter</li> <li>•Measuring point : AUX IN : Line out terminal</li> <li>•Test disc : CTS-1000</li> </ul>	When test disc (track 1) is played, confirm that Line out is $+4\text{dBs} \pm 4\text{dB}$ .	$+4\text{dBs} \pm 4\text{dB}$	—
4. Sub woofer output check	<ul style="list-style-type: none"> <li>•Measuring instrument : Oscilloscope : Voltmeter</li> <li>•Measuring point : AUX IN : Sub woofer output terminal</li> <li>•Test disc : CTS-1000</li> </ul>	Input the reference frequency 100Hz from AUX IN. By main volume is maximum position, bass and treble is flat position, confirm the sub woofer output is $-14\text{dBs} \pm 4\text{dB}$ .	$-14\text{dBs} \pm 4\text{dB}$	—

**■ CD section**

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Jitter check	<ul style="list-style-type: none"> <li>•Measuring instrument : Jitter meter</li> <li>•Test point :TP601(GND side) :TP602(ARF side)</li> <li>•Test disc :CTS-1000</li> </ul>	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n-sec or less.	26n-sec or less	—
2. RF level (eye pattern) check	<ul style="list-style-type: none"> <li>•Measuring instrument : Oscilloscope</li> <li>•Test point :TP601(GND side) :TP602(ARF side)</li> <li>•Test disc :CTS-1000</li> </ul>	<p>Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that peak-to-peak value of oscilloscope waveform is within <math>1.1V \pm 0.2V</math>.</p> <p>Eye-pattern waveform</p>  <p>The maximum value of this waveform should be in the range of specifications and the waveform should be clear</p>	within $1.1V \pm 0.2V$ .	—
3. Outer most area check	<ul style="list-style-type: none"> <li>•Test disc :CTS-1000</li> </ul>	Select "Track 26" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		—
4. Pickup unit movement check (From the outer area to the inner area)	<ul style="list-style-type: none"> <li>•Test disc :CTS-1000</li> </ul>	Allow the pickup to skip over from the disc's outer most area to "Track 1" and check that it takes within 10 seconds for the player to enter play mode.	within 10 seconds	—

## 7. Trouble Shooting

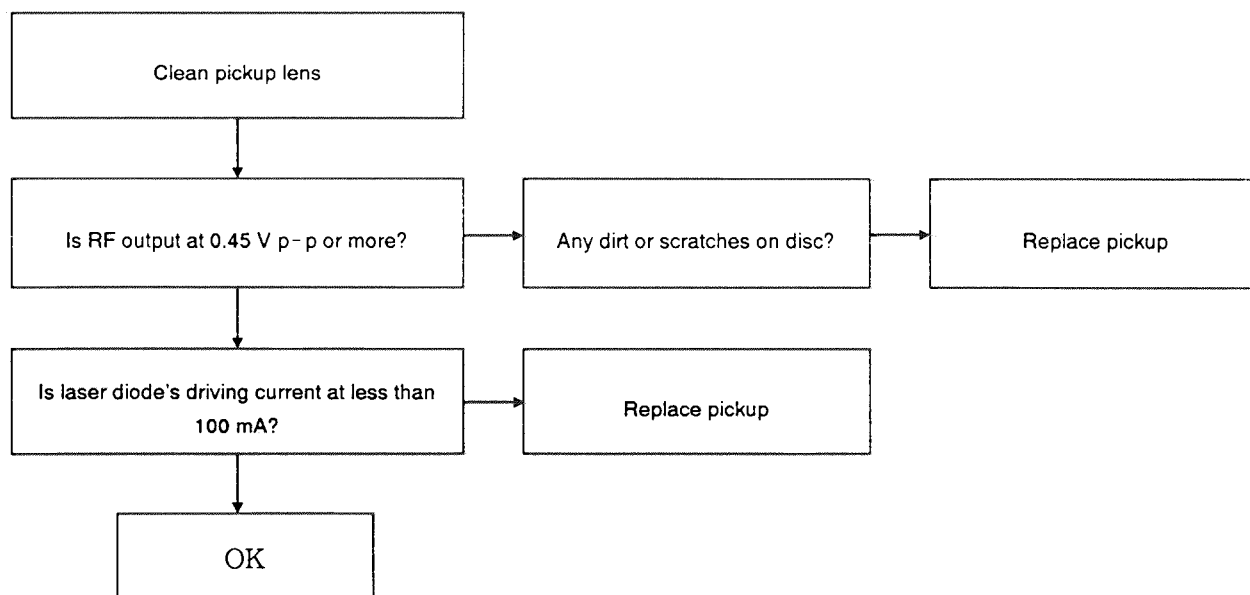
### ■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑧ (GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10  $\Omega$  .)

◆ Following the flow chart shown below, check the service life.



#### ◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614(10  $\Omega$  ), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R614 (V)/10 (  $\Omega$  )

When voltage level is at 1.0 V:

$$1.0 \text{ V} / 10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

◆ HOW TO OPERATE THE CD SELF - DIAGNOSIS FUNCTION

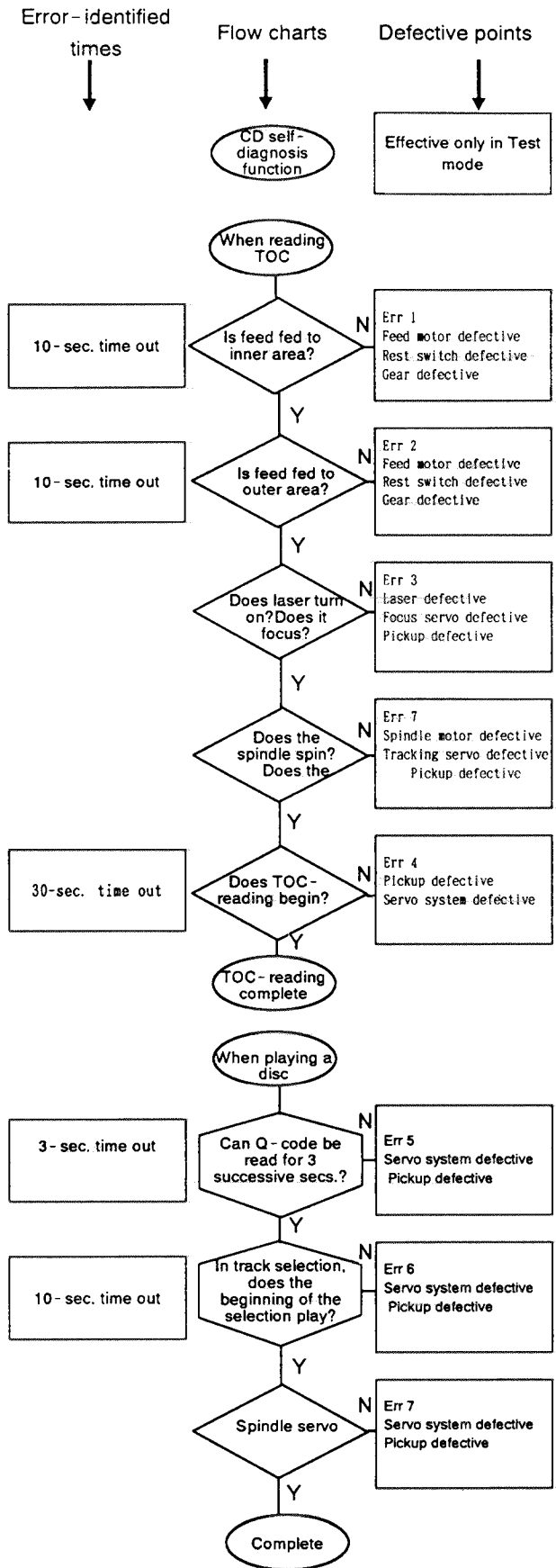
◆ The CD Self - diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

1. Operation

- 1 Press the three **■/CLEAR**, **+10** and **POWER** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- 2 Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- 3 Identify the point of malfunction in accordance with the error code displayed.

2. Error codes & defective points

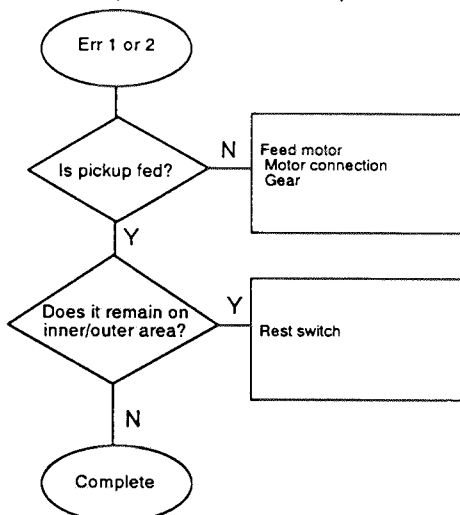




Error-identified times  
↓

Flow charts  
↓

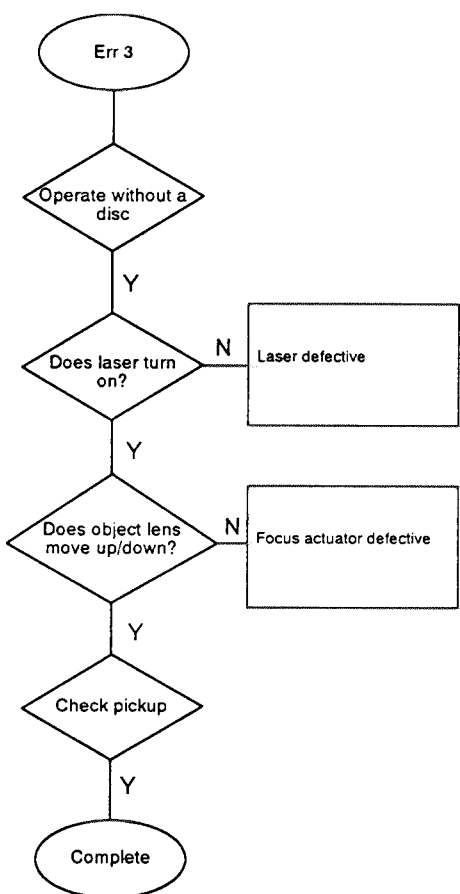
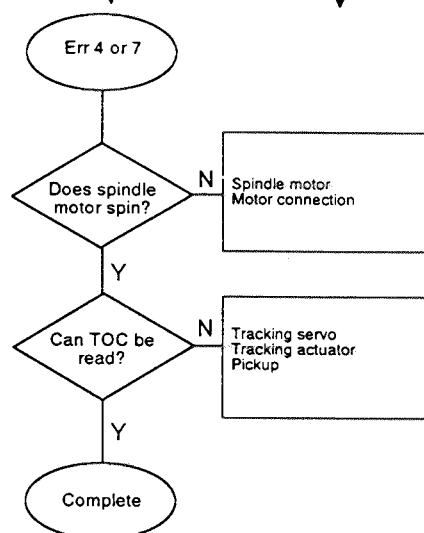
Defective points  
↓



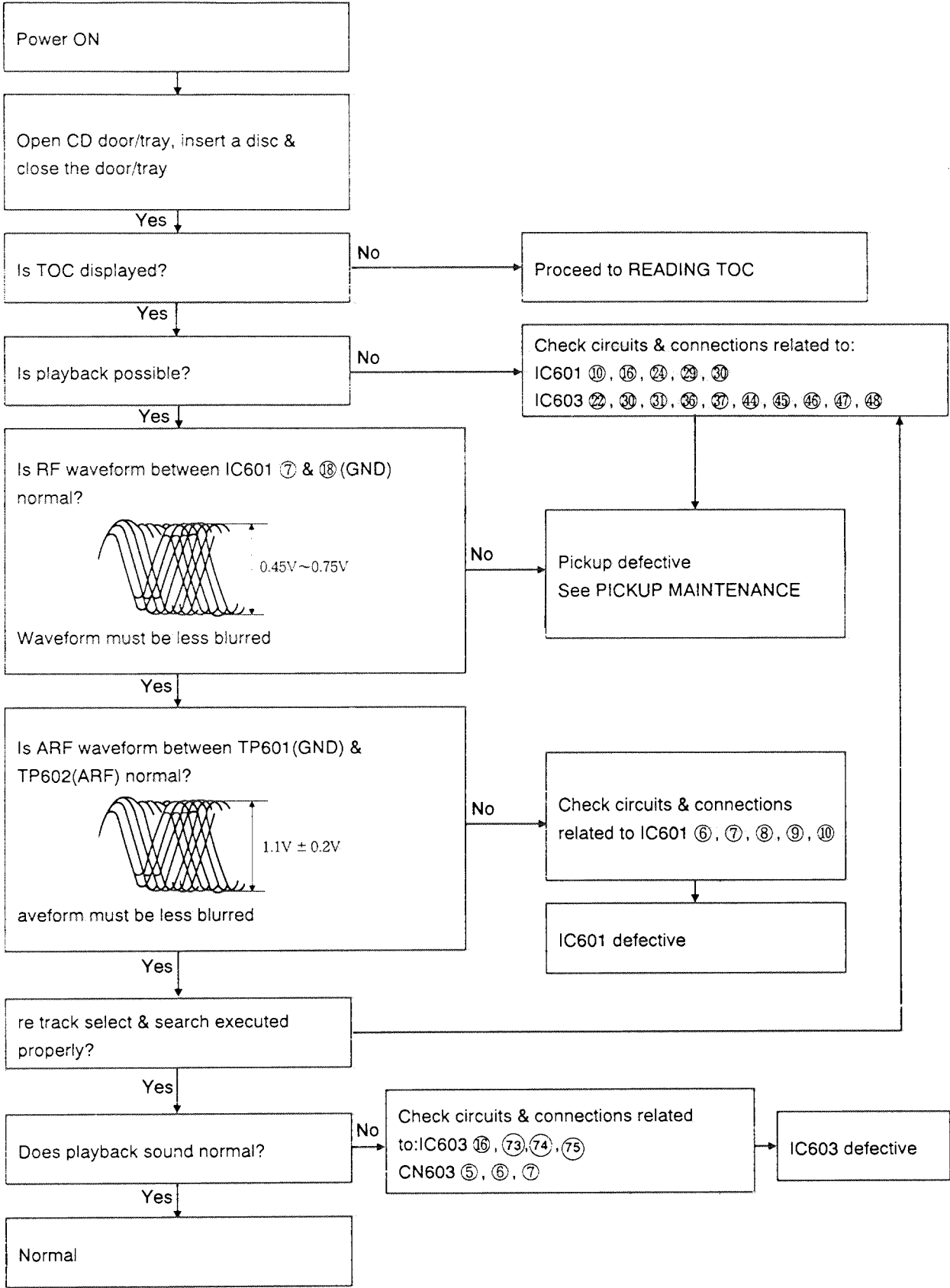
Error-identified times  
↓

Flow charts  
↓

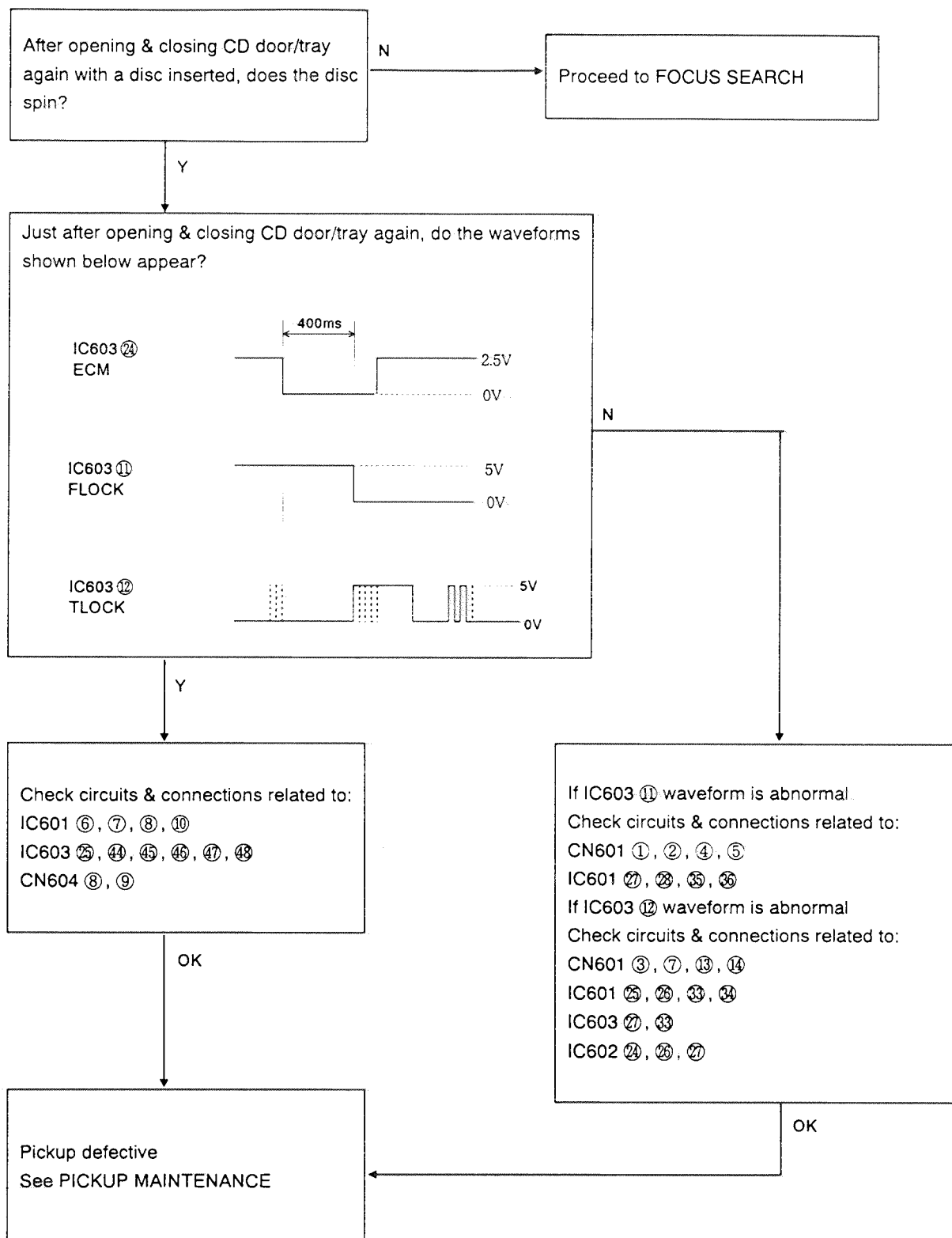
Defective points  
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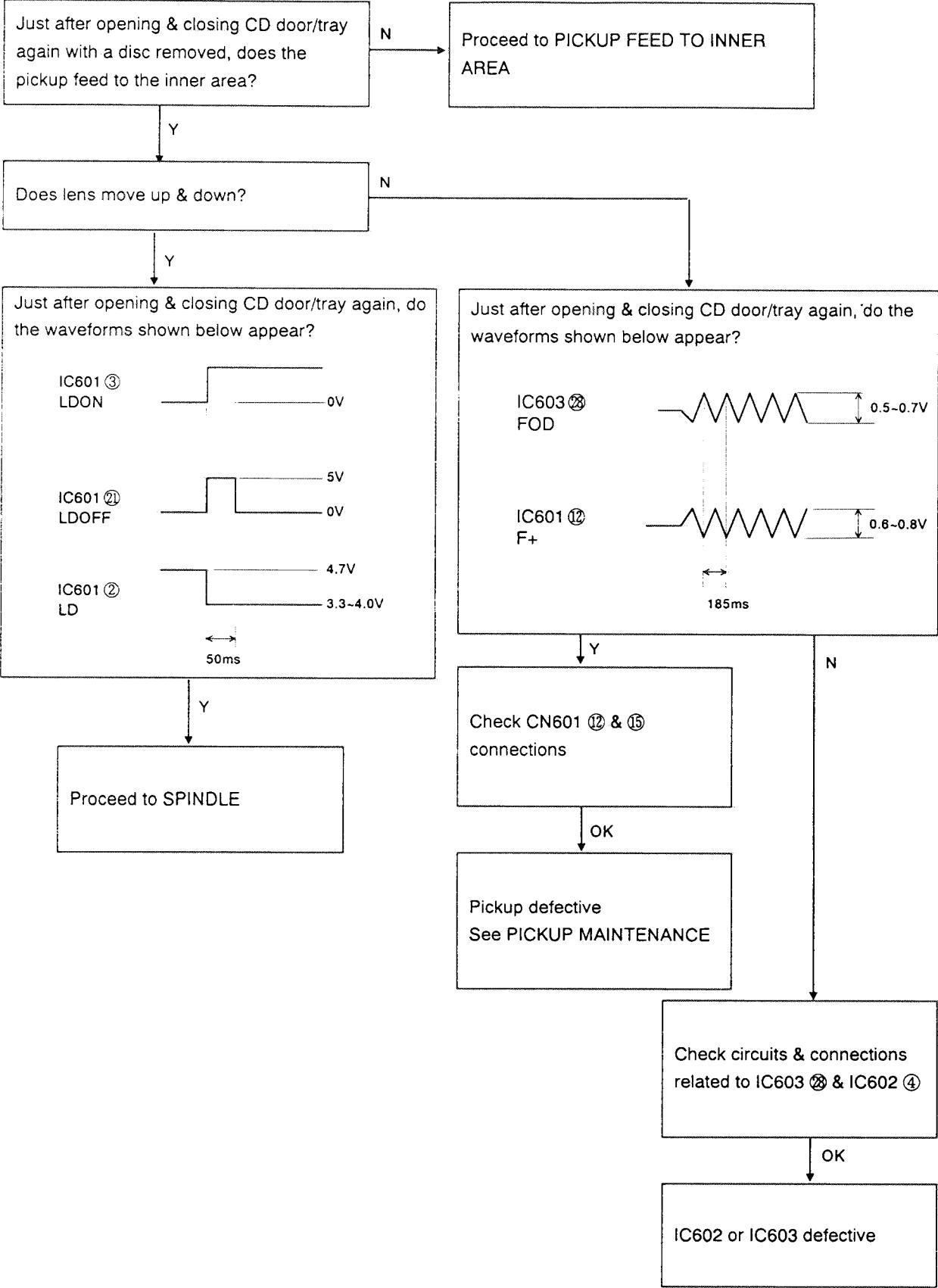
◆ General



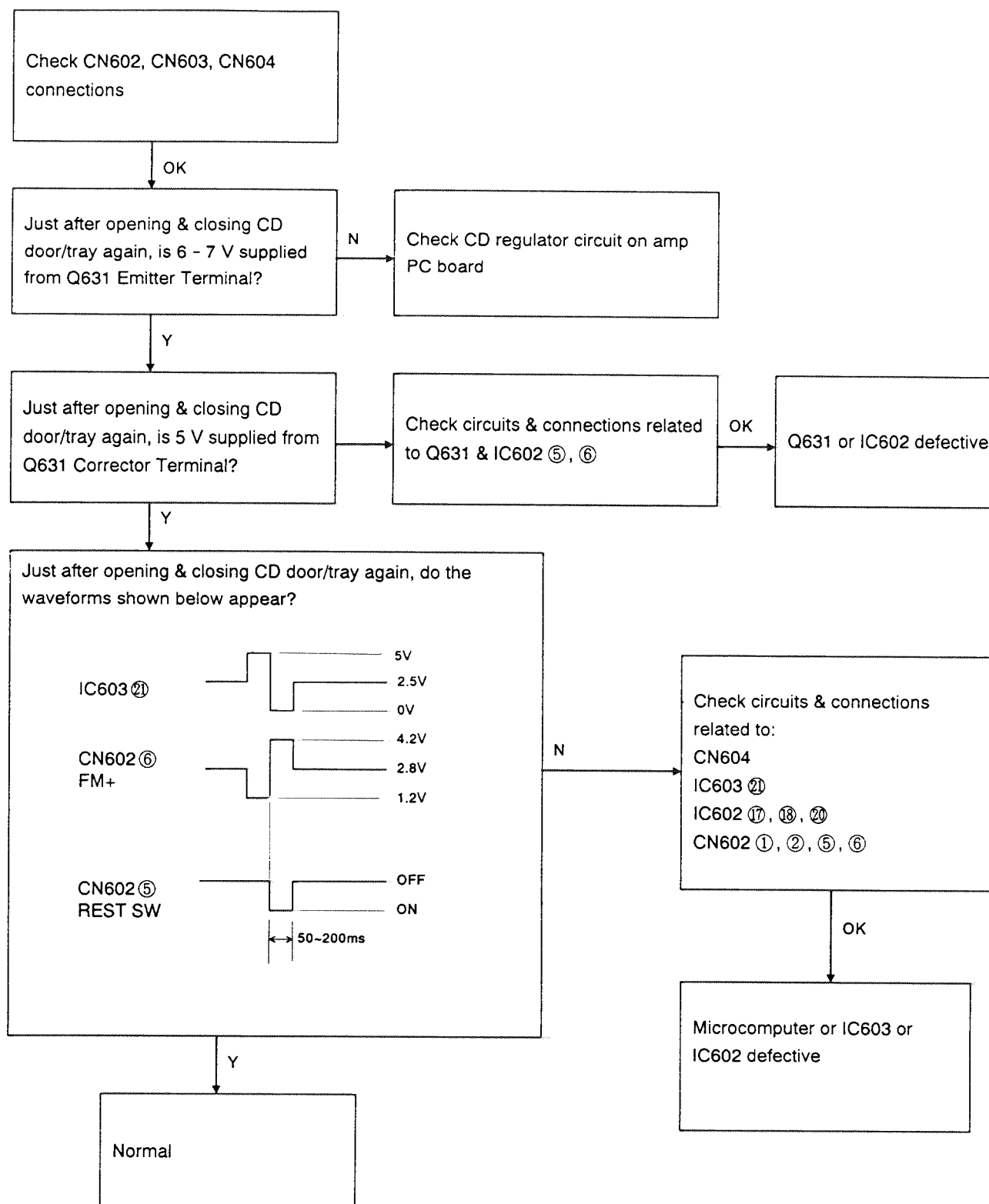
# ◆ Reading TOC



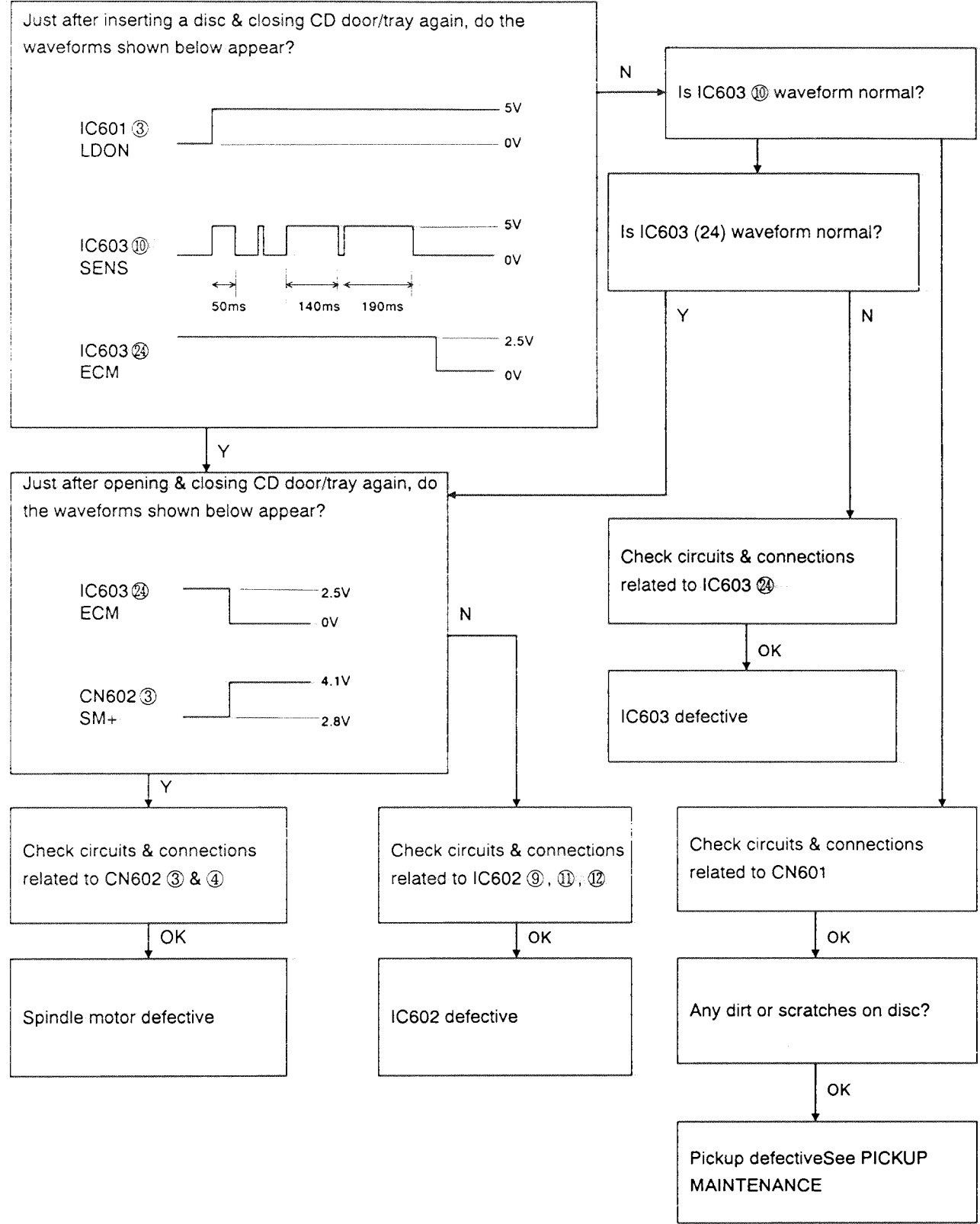
◆ Focus search



# ◆ Pickup feed to inner area

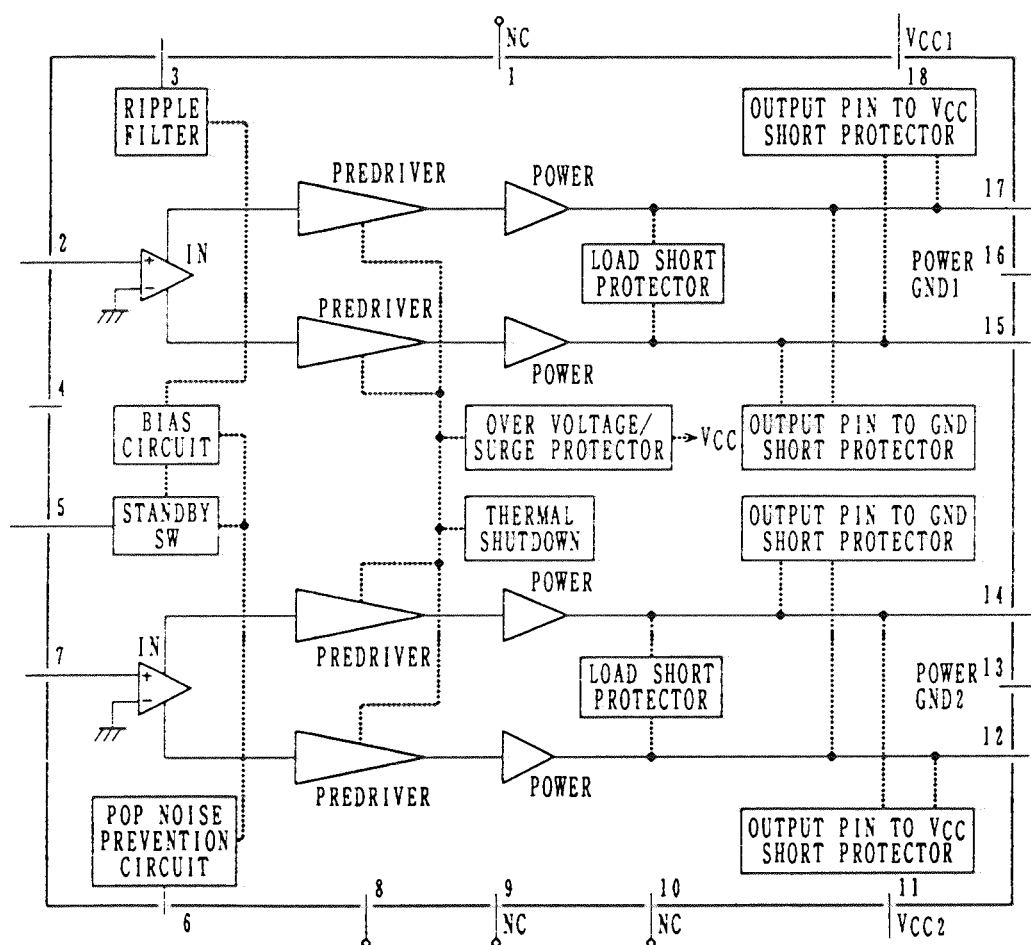


◆ Spindle





■ IC31: LA4705NA (POWER AMPLIFIER)





■ IC701 : UPD78063GF Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	SDATA	I/O	Serial data ( TUNER PLL )
2	SCK	0	Serial clock ( TUNER PLL )
3	SUBQ	I	CD Q cord data
4	NC	0	Non connection
5	SQCK	0	Sincro clock of CD Q cord data
6	IC		Connect to Vss
7	X2		Main system clock 4.19MHz
8	X1	I	Main system clock 4.19MHz
9	Vdd		Power source
10	XT1	I	Sub system clock 32.768kHz
11	XT2		Sub system clock 32.768kHz
12	RESET	I	Reset
13	REM	I	Remote control unit
14	RDS CLOCK	I	Sincro clock of RDS data
15	VOL A	I	Volume encorder A
16	BEAT 2	0	Main clock selecttor 2
17	BEAT 1	0	Main clock selecttor 1
18	+ BCTL	0	Switched 5V control (H = 5V off)
19	XRESET	0	CD LSI reset
20	MCLK	0	CD LSI comand clock
21	MDATA	0	CD LSI comand data
22	MLD	0	CD LSI comand load
23	MTO	0	CD door motor
24	MT1	0	CD door motor
25	DIMMER	0	Backlight brilliant (H = normal, L = dimmer)
26	F.AUX	0	Fuction AUX (L = by AUX)
27	AVss		AD convertor ground
28	SAFETY2	I	Detection 2 for avnormal power voltage
29	DOOR	I	Reset/open/close switch
30	SAFETY1	I	Detection 1 for avnormal power voltage
31	SAFETY0	I	Detection 0 for avnormal power voltage
32	KEY 1	I	Set key input 1
33	KEY 0	I	Set key input 0 (Included to Version select)
34	MTS	0	Door motor speed (L = Normal, H = Slow)
35	LO.MUTE	0	Line out mute
36	AVdd		Power source for AD convertor (Vdd = same)
37	AVref		Reference power voltage for AD convertor
38	BUP	I	Distinction of backup power source (H = Backup)
39	F.TUNER	0	Function Tuner
40	Vss		Ground

Pin No.	Symbol	I/O	Function
41	MPX	I	Detection of FM stereo (L = Stereo)
42	PERIOD	0	Stolove of Tuner PLL
43	VOL B	I	Volume encorder B
44	BASS	0	Bass control (PWM)
45	TRE	0	Treble control (PWM)
46	VOL	0	Volume control (PWM)
47	S.BASS	0	S.BASS ON/OFF (ON = L, OFF = H)
48	S.MUTE	0	System mute (mute = L)
49	P.OUT	0	Power on/off
50	F.CD	0	Function CD (CD = L)
51	COM 0	0	LCD Remote control unit terminal 0
52	COM 1	0	LCD Remote control unit terminal 1
53	COM 2	0	LCD Remote control unit terminal 2
54	COM 3	0	LCD Remote control unit terminal 3
55	BIAS		LCD bias power voltage
56	VLC 0		LCD bias power voltage
57	VLC 1		LCD bias power voltage
58	VLC 2		LCD bias power voltage
59	Vss		Ground
60	S0	0	LCD segment 0
61	S1	0	LCD segment 1
62	S2	0	LCD segment 2
63	S3	0	LCD segment 3
64	S4	0	LCD segment 4
65	S5	0	LCD segment 5
66	S6	0	LCD segment 6
67	S7	0	LCD segment 7
68	S8	0	LCD segment 8
69	S9	0	LCD segment 9
70	S10	0	LCD segment 10
71	S11	0	LCD segment 11
72	S12	0	LCD segment 12
73	S13	0	LCD segment 13
74	S14	0	LCD segment 14
75	S15	0	LCD segment 15
76	S16	0	LCD segment 16
77	S17	0	LCD segment 17
78	S18	0	LCD segment 18
79	S19	0	LCD segment 19
80	S20	0	LCD segment 20

[illegible]



# 9. Block Diagram

■ UX-2000GD

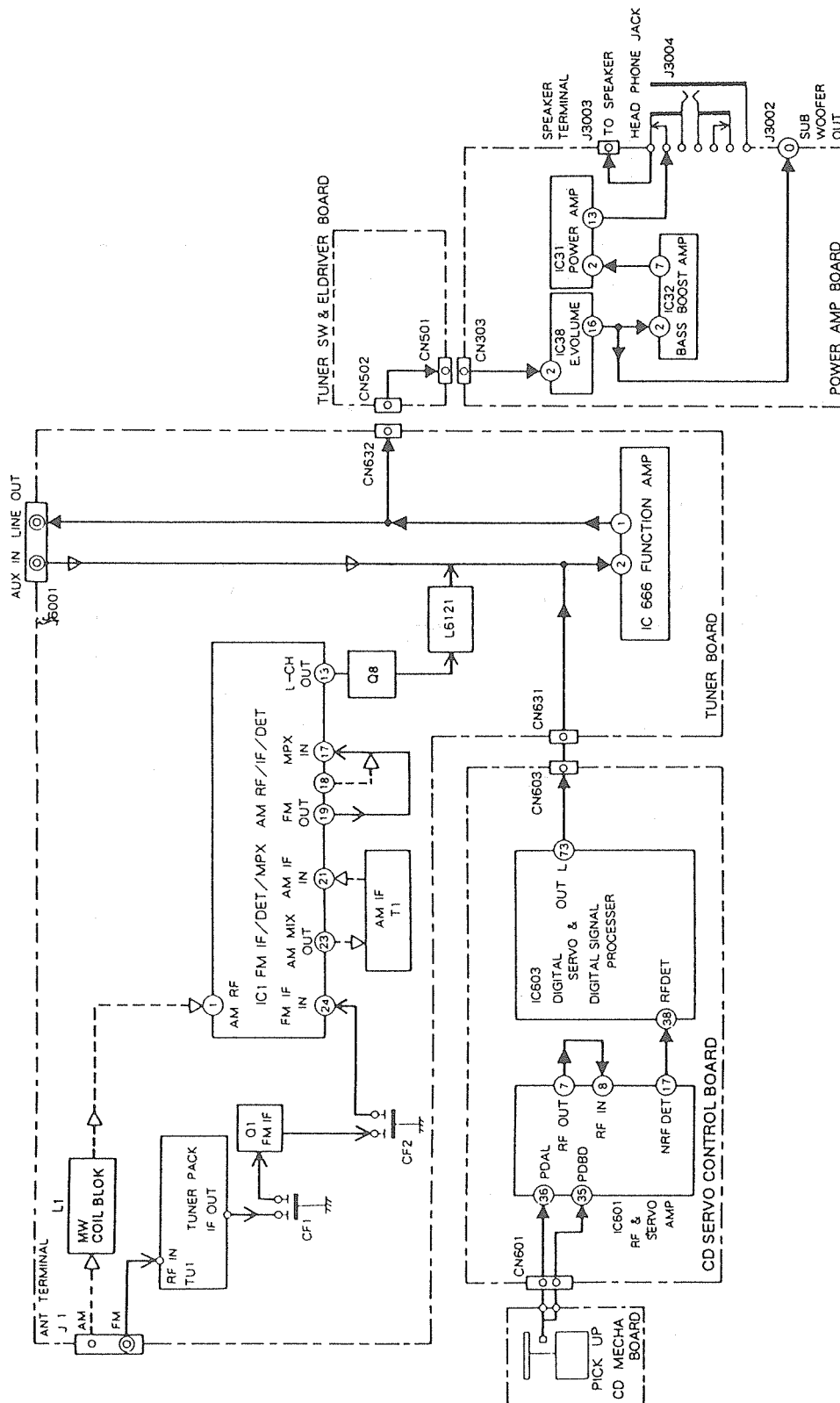


Fig.9-1

# 10. Wiring Connections

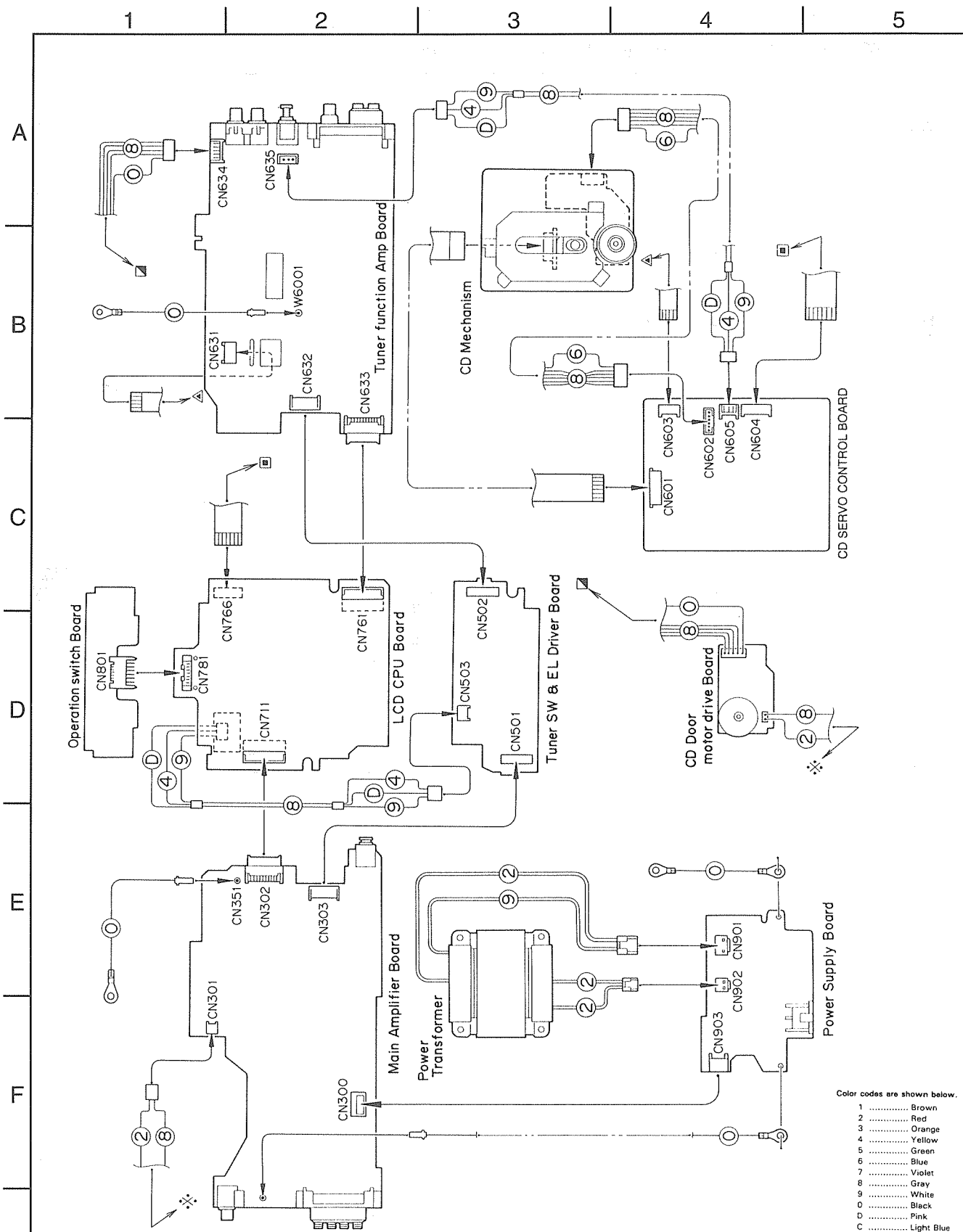
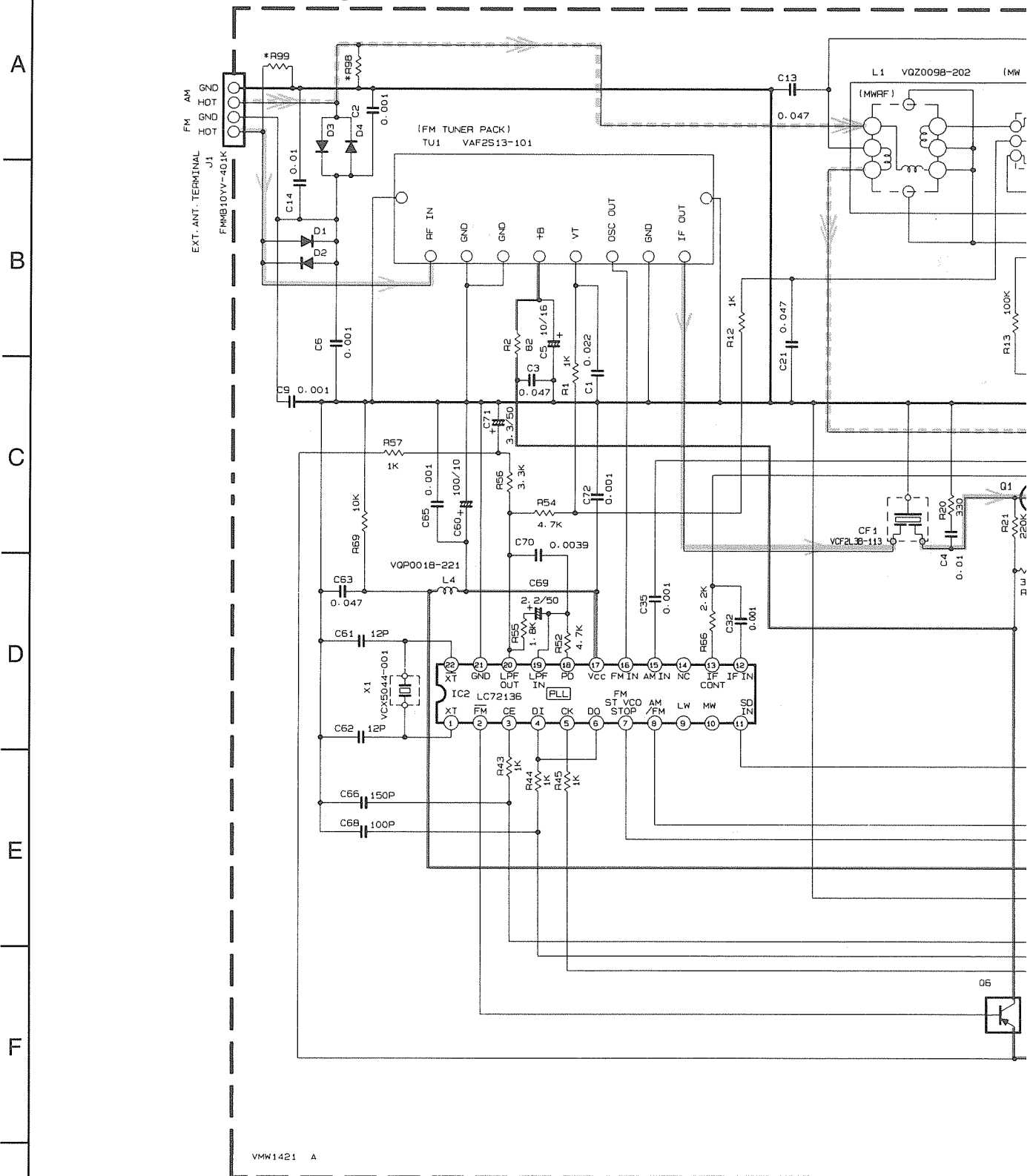


Fig.10-1

## 11. Standard Schematic Diagrams

■ Tuner Circuit : Drawing No. VDH9291-006TW



CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.2	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
IC1	FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	1.1	2.0	2.0	5.2	2.0
IC1	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	4.9	5.1	3.9	3.9	0	0	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

Tr
PIN
FM 76.0MHz
AM 531KHz

Note : VDH9291006TW

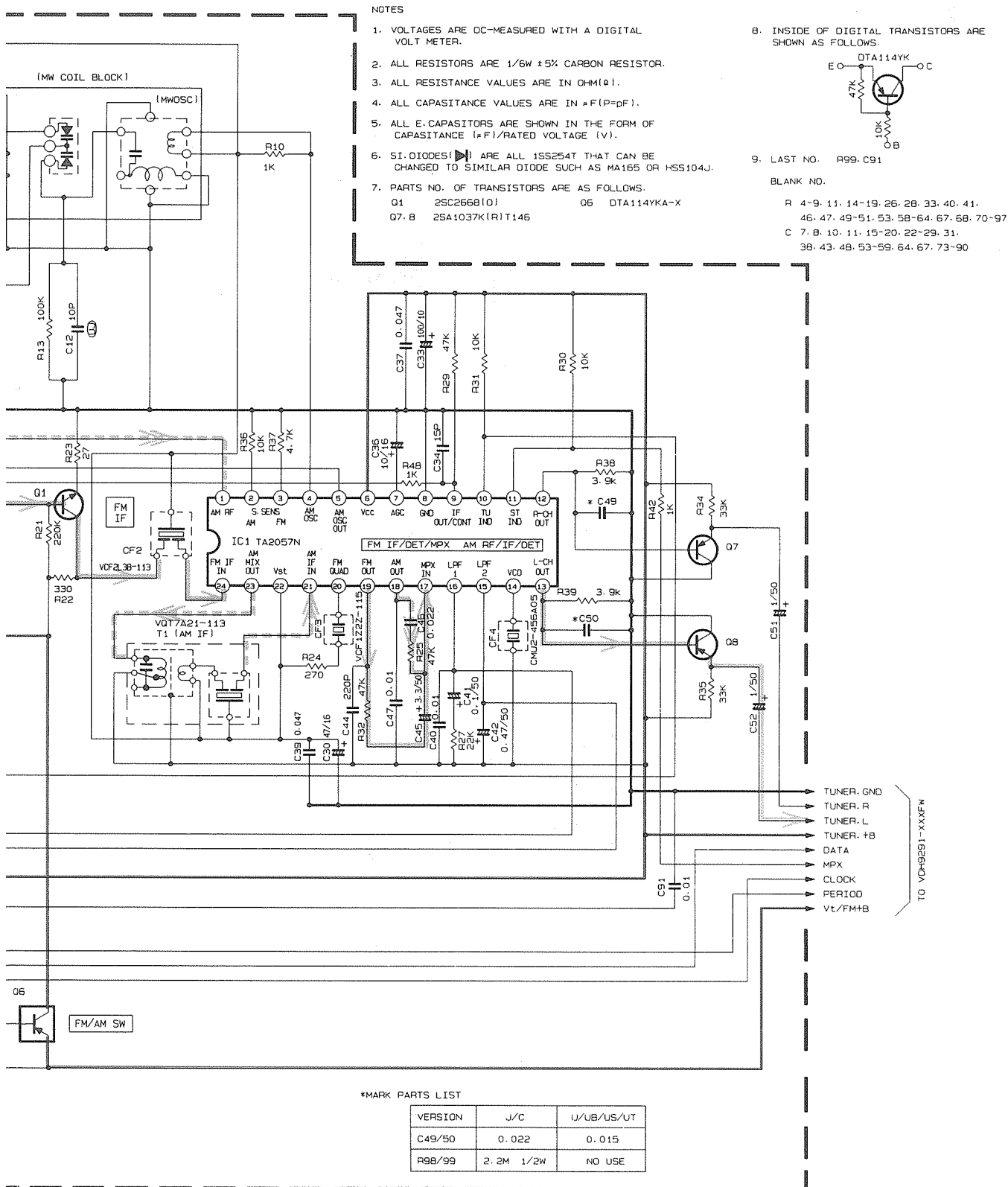
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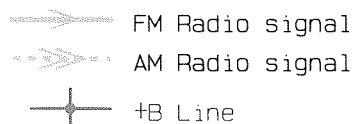
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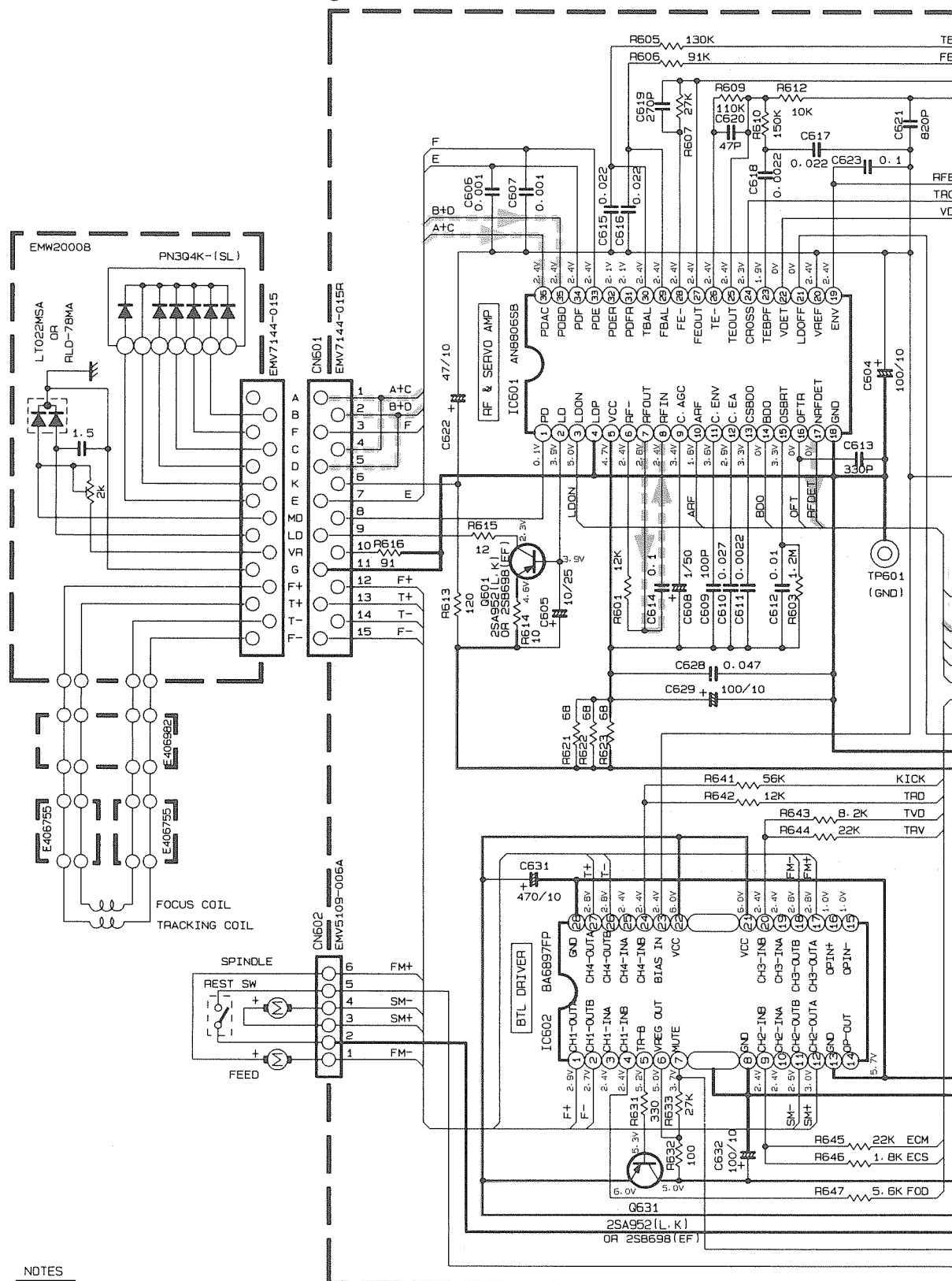


Tr. NO.	Q1			Q5			Q7			Q8		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
FM 76.0MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
AM 531kHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.5	0	1.1

Fig.11-1



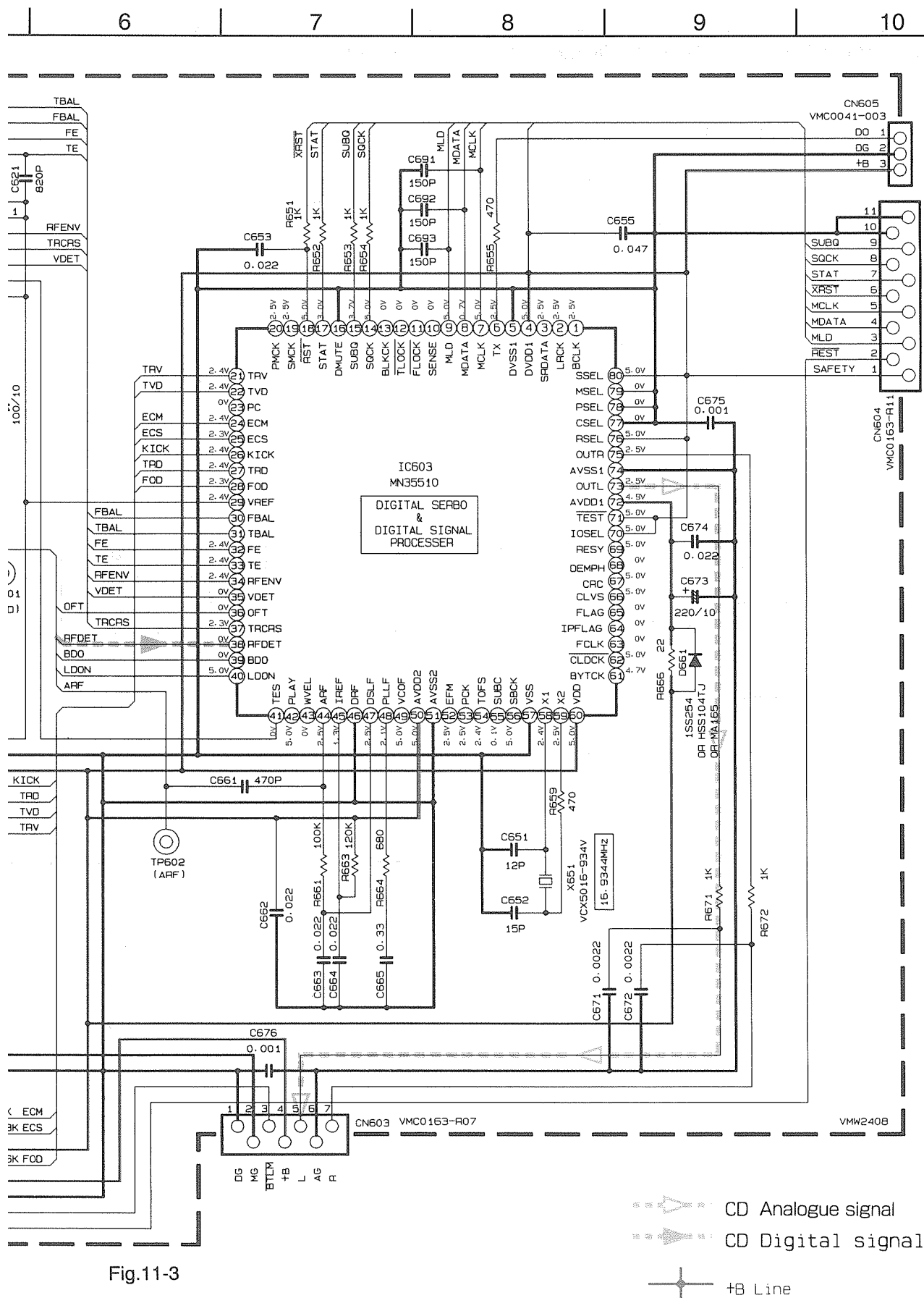
■ CD Servo Control Circuit : Drawing No.VDH1010-001CW



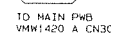
- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
  2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.  
ALL RESISTANCE VALUES ARE IN OHM(Ω).  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN nF(pF).  
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (pF)/RATED VOLTAGE (V).

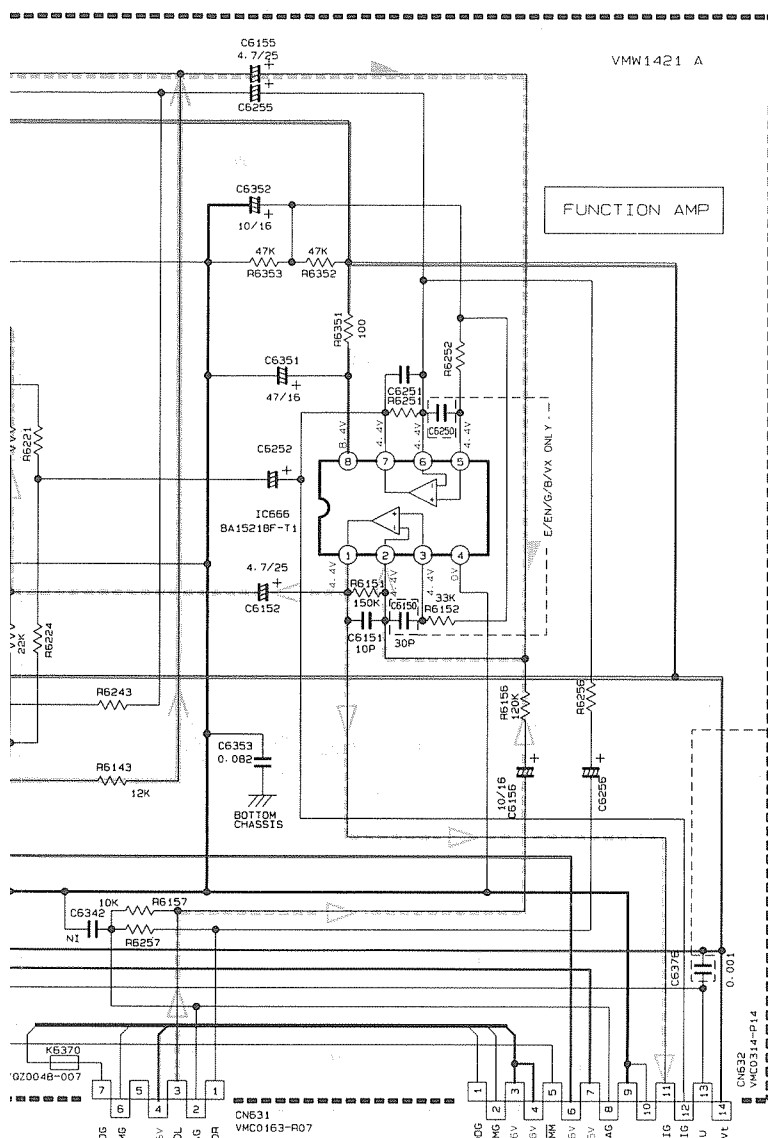
Note : VDH1010001CW





1	2	3	4	5
---	---	---	---	---





## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER  
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION --- GO STOP MODE  
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS  
I I IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED.  
RESISTORS ARE 1/8 1% CARBON RESISTOR OR 1/10W 1% MG RESISTOR  
ALL RESISTANCE VALUES ARE IN OHMIO.  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.  
ALL CAPACITANCE VALUES ARE IN \*FIP=PF.  
ALL INDUCTANCE VALUES ARE IN \*HIM=MH.  
ALL E CAPACITORS ARE SHOWN IN THE FORM  
OF CAPACITANCE \*FPI/RATED VOLTAGE IVI.  
ALL DIODES ARE 15525AT-77 OR H55104TJ.  
NI MEANS NO INSERT

(FR) FUSEBLE RESISTOR



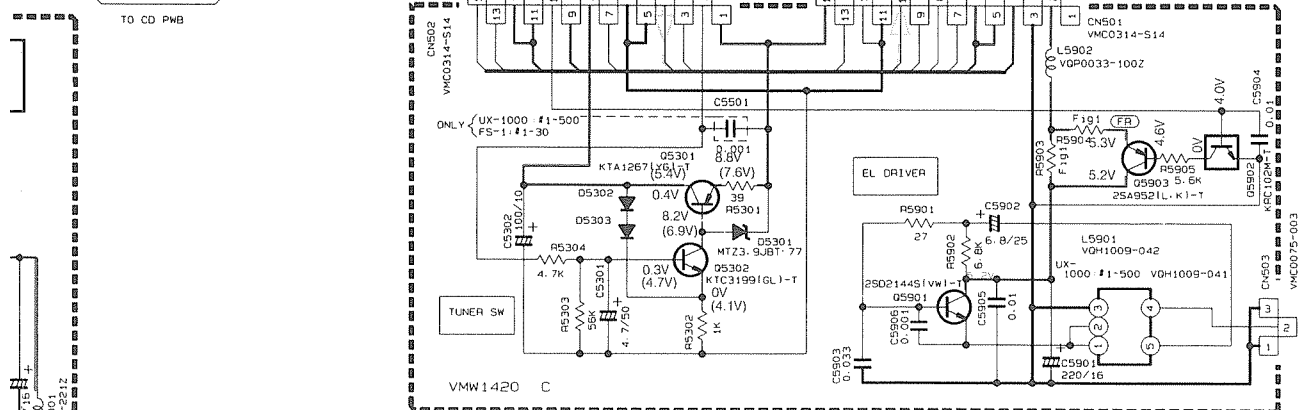
- EXCEPT { UX-1000 : #1-500  
FS-1 : #1-30

Fig1

	UX-1000 #1-500
A5903	270 0
A5904	47 0 1/4W [0870077~470X]

	UX-1000/UX-1500R	FS-1/UX2000 /UX-2000R
A5903	330 Ω	270 Ω
A5904	68 Ω 1/4W 10R20077-680Y1	47 Ω 1/4W 10R20077-470Y1

TO MAIN PWB.  
VMW1420 A CN303



CD Analogue Signal

### FM Radio Signal

AUX IN Signal VDH9291-001FW

+ B line

Dom/E/EN/G/VX/U/US/UB/UT/J/C

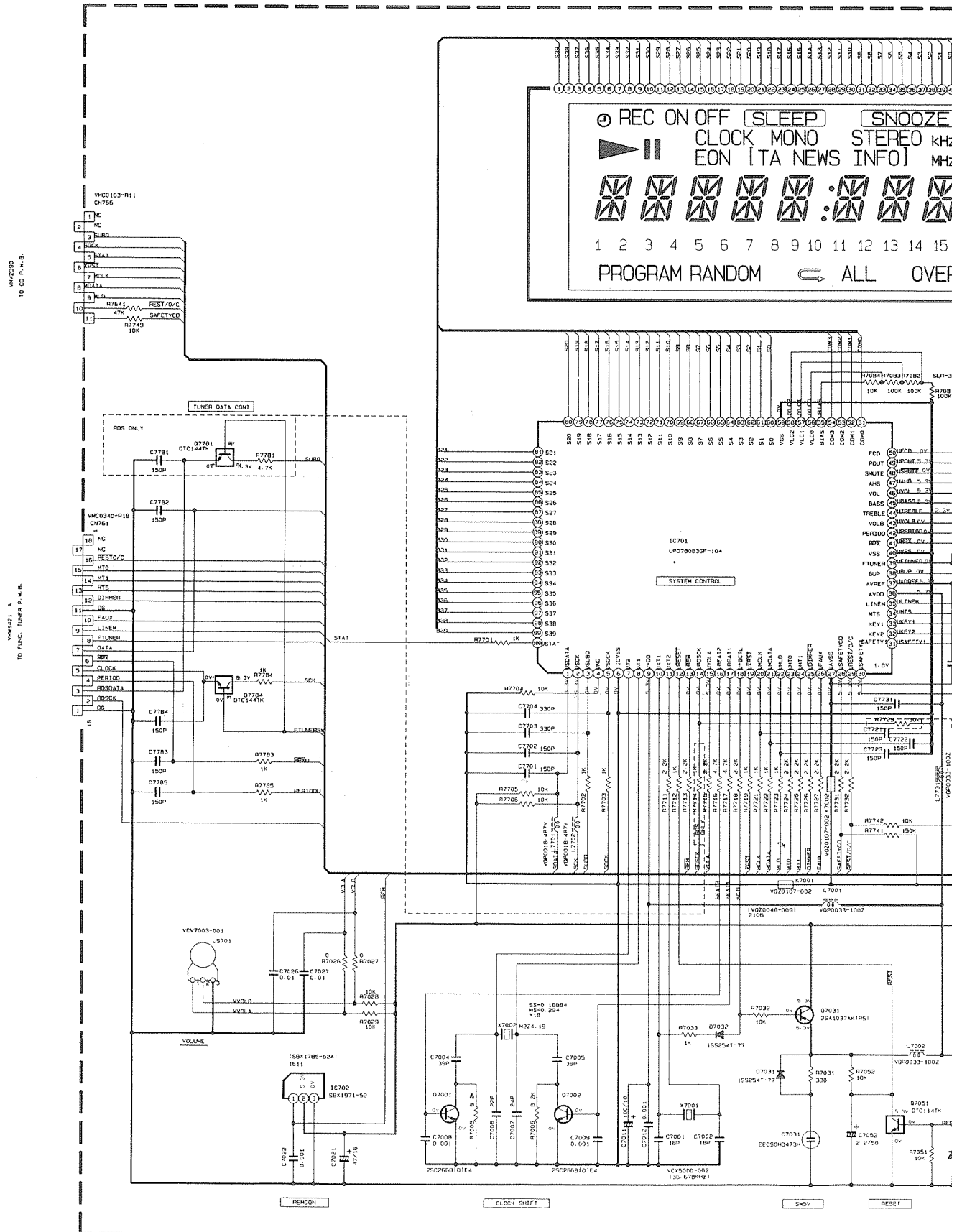
UX-1000. FS-1

UX-2000. FS-1000

UX-2000R, FS-2000

UX-1500R

# **LCD&System CPU Circuit : Drawing No.VDH9291-001SV**



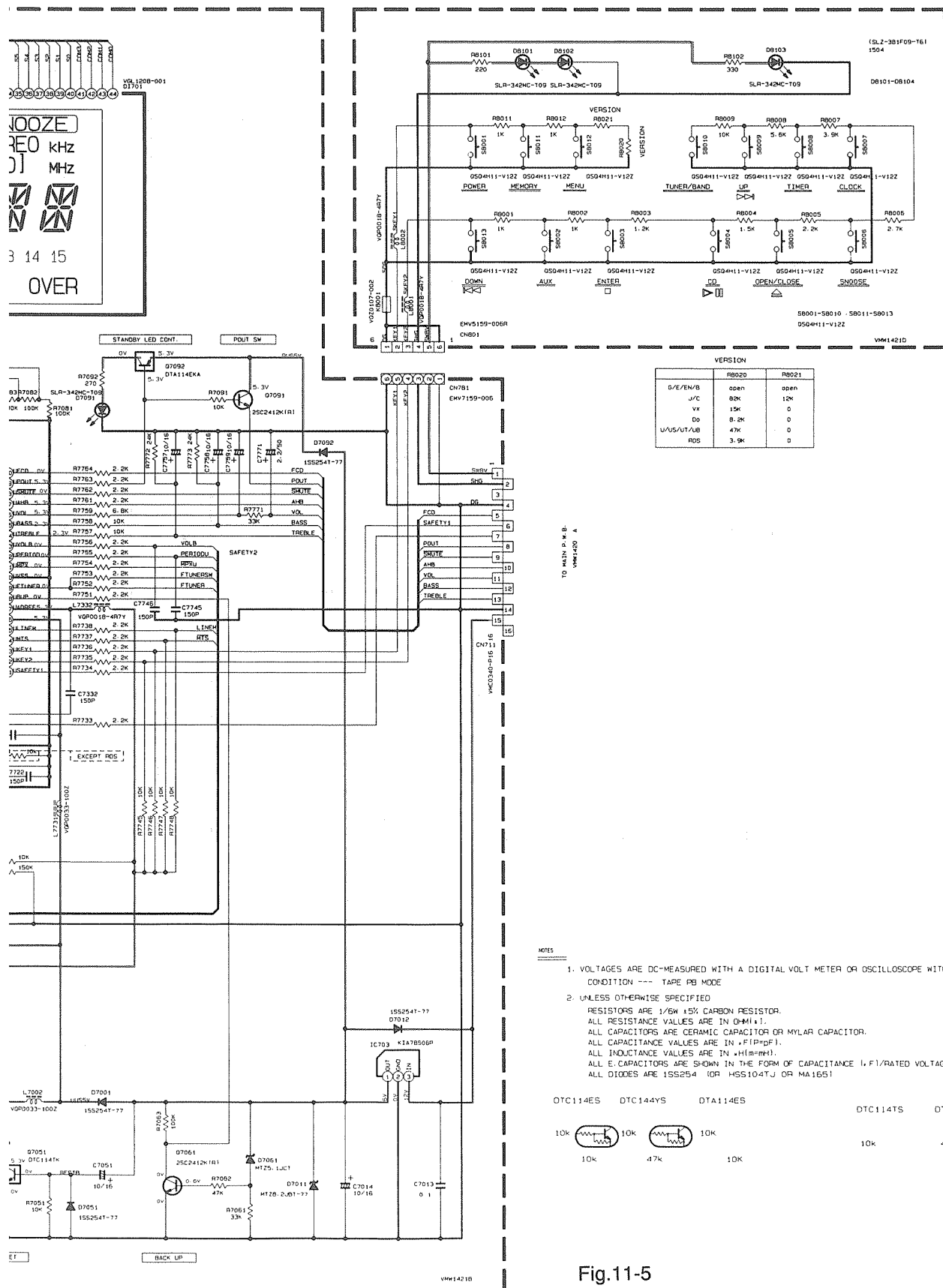
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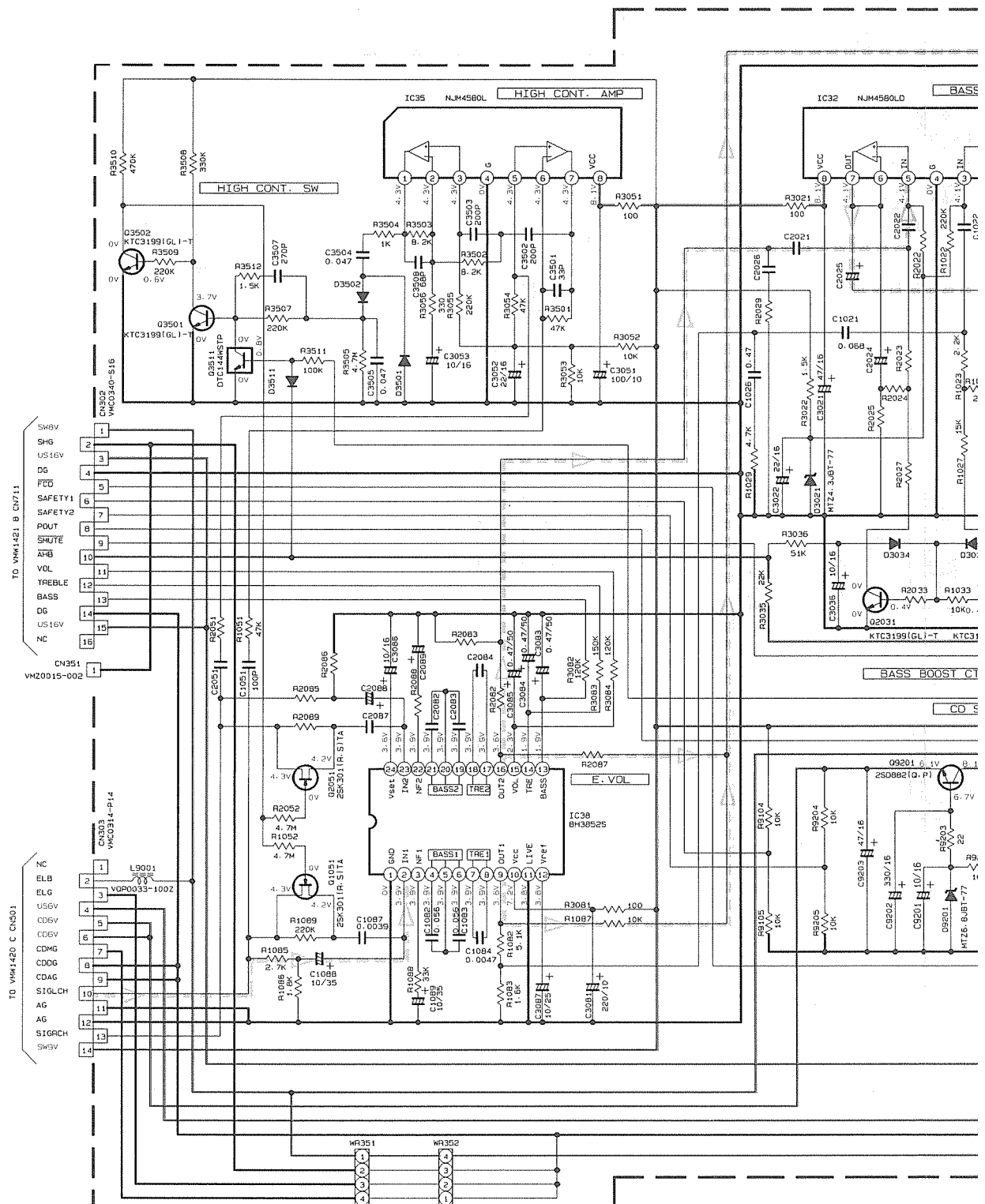
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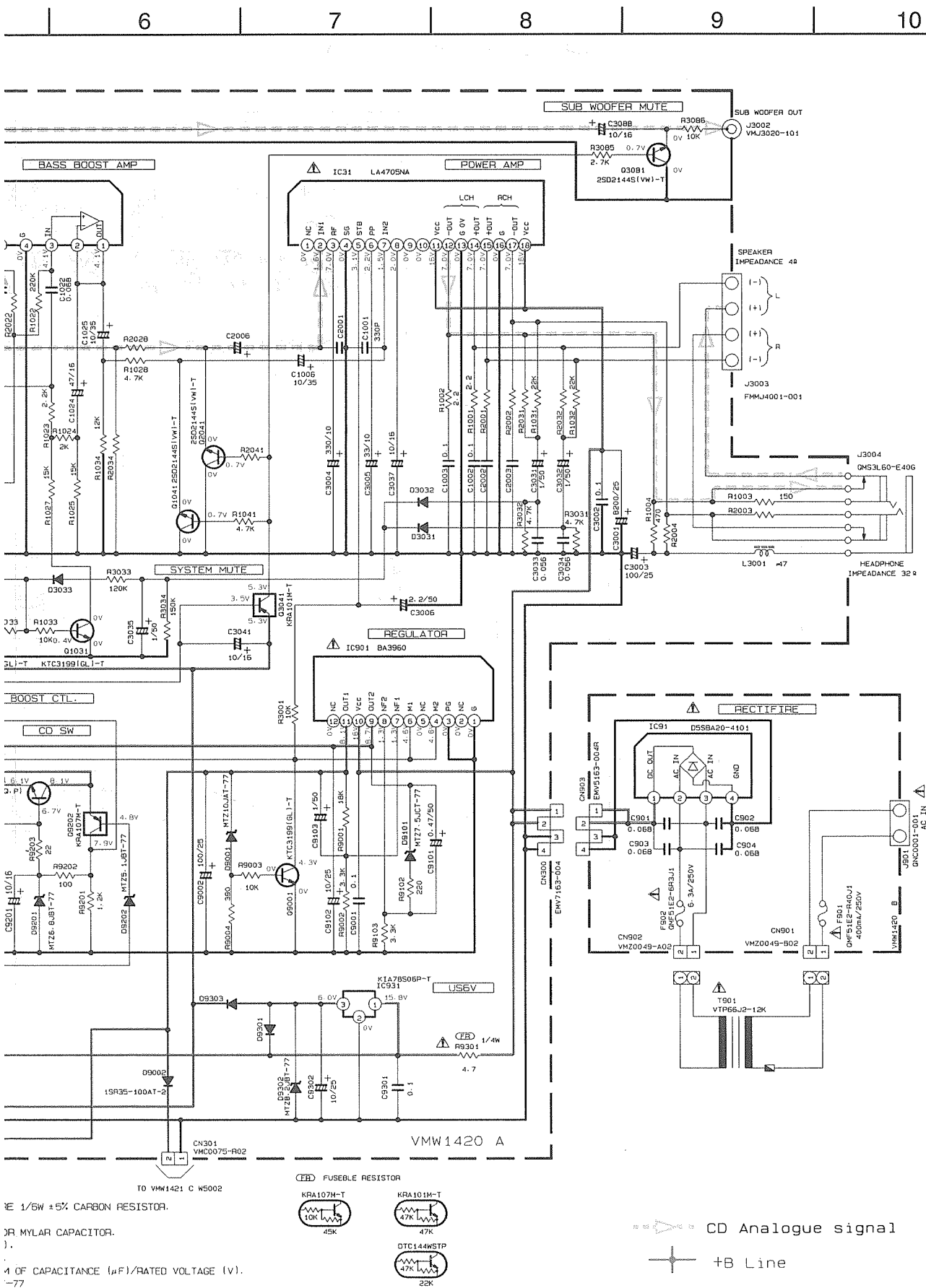
# Power Supply&Power Amplifier Circuit : Drawing No.VDH9291-023AW



## NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.  
CONDITION --- FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/5W  $\pm 5\%$ .  
ALL RESISTANCE VALUES ARE IN OHM101.  
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR C.  
ALL CAPACITANCE VALUES ARE IN  $\mu F$  (P=PF).  
ALL INDUCTANCE VALUES ARE IN  $\mu H$  (P=MH).  
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPAC  
ALL DIODES ARE HSS104TJ OR 1SS254T-77



## 12.Location of P.C.Board Parts

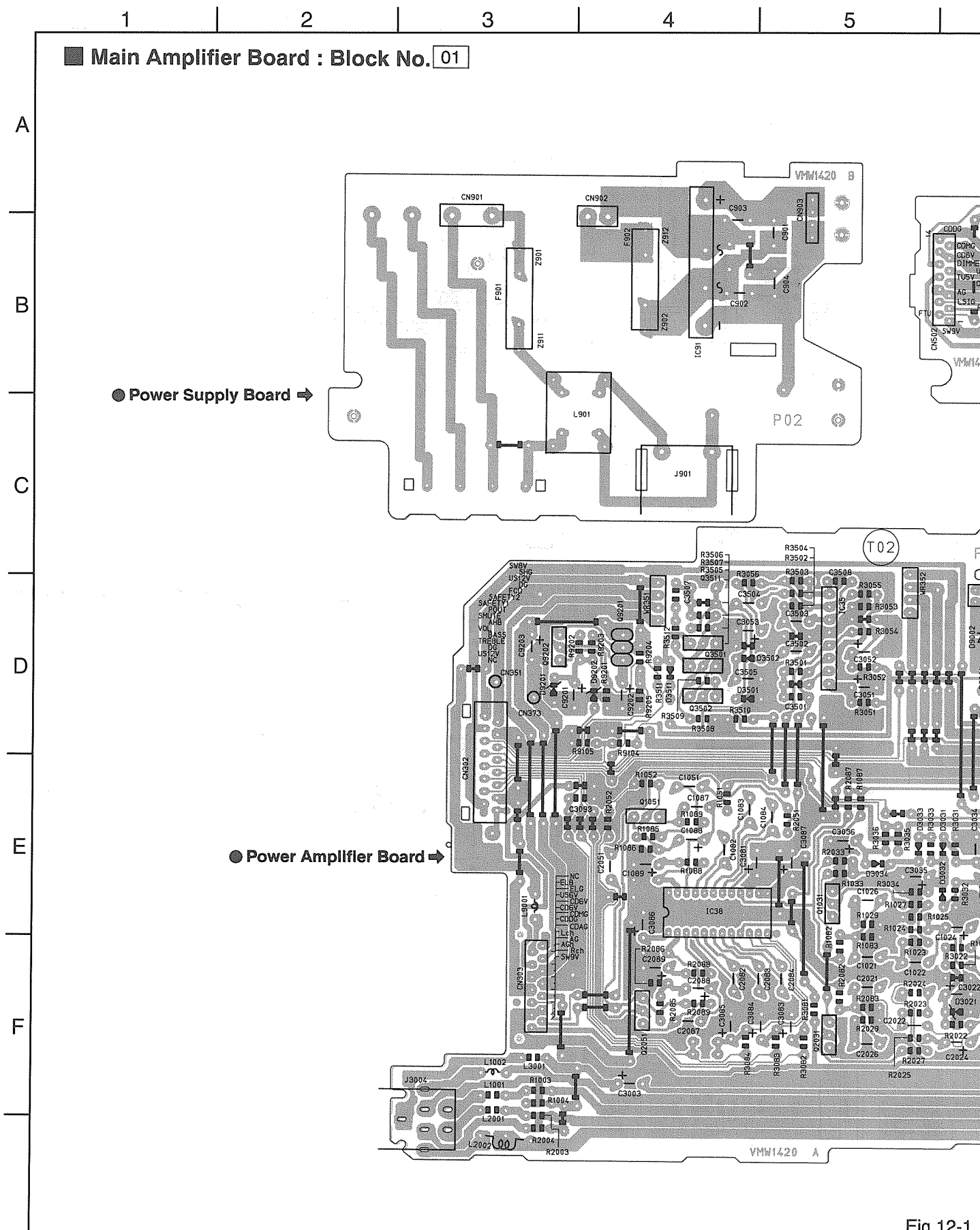


Fig.12-1



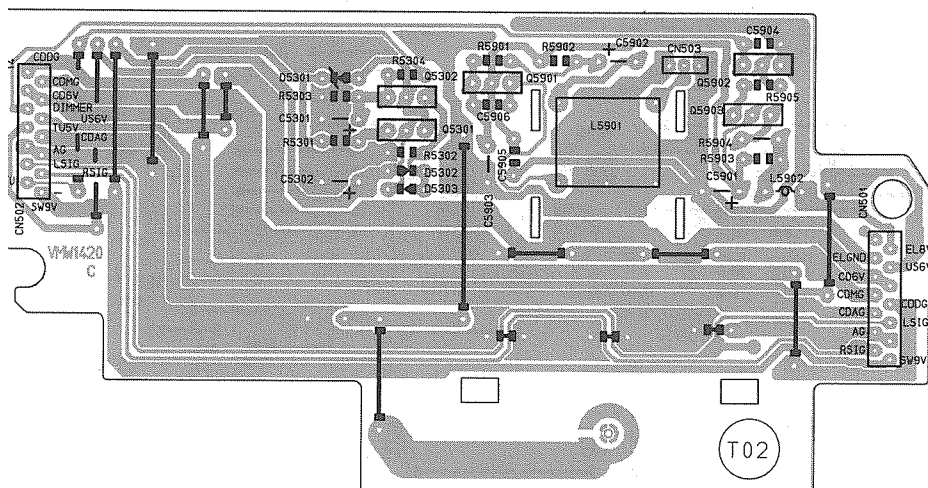
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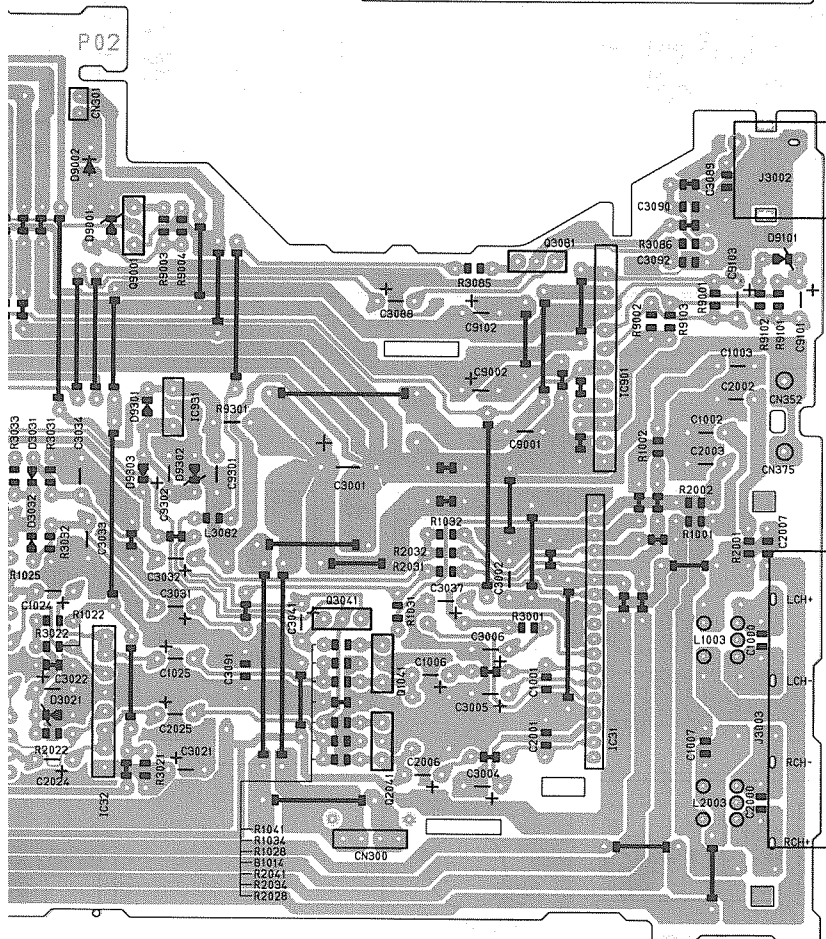
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← ● Tuner Switch & EL Drive Board



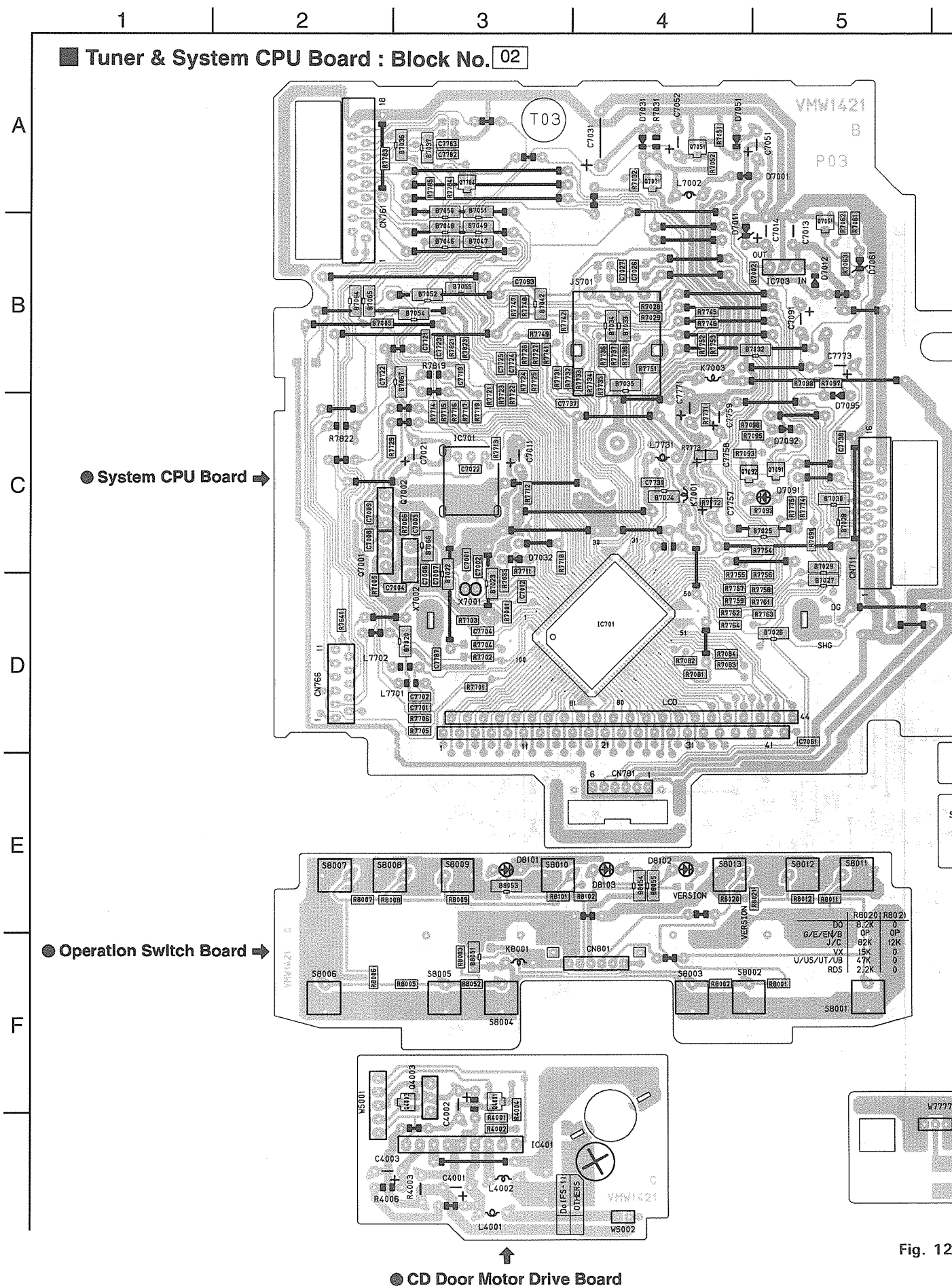
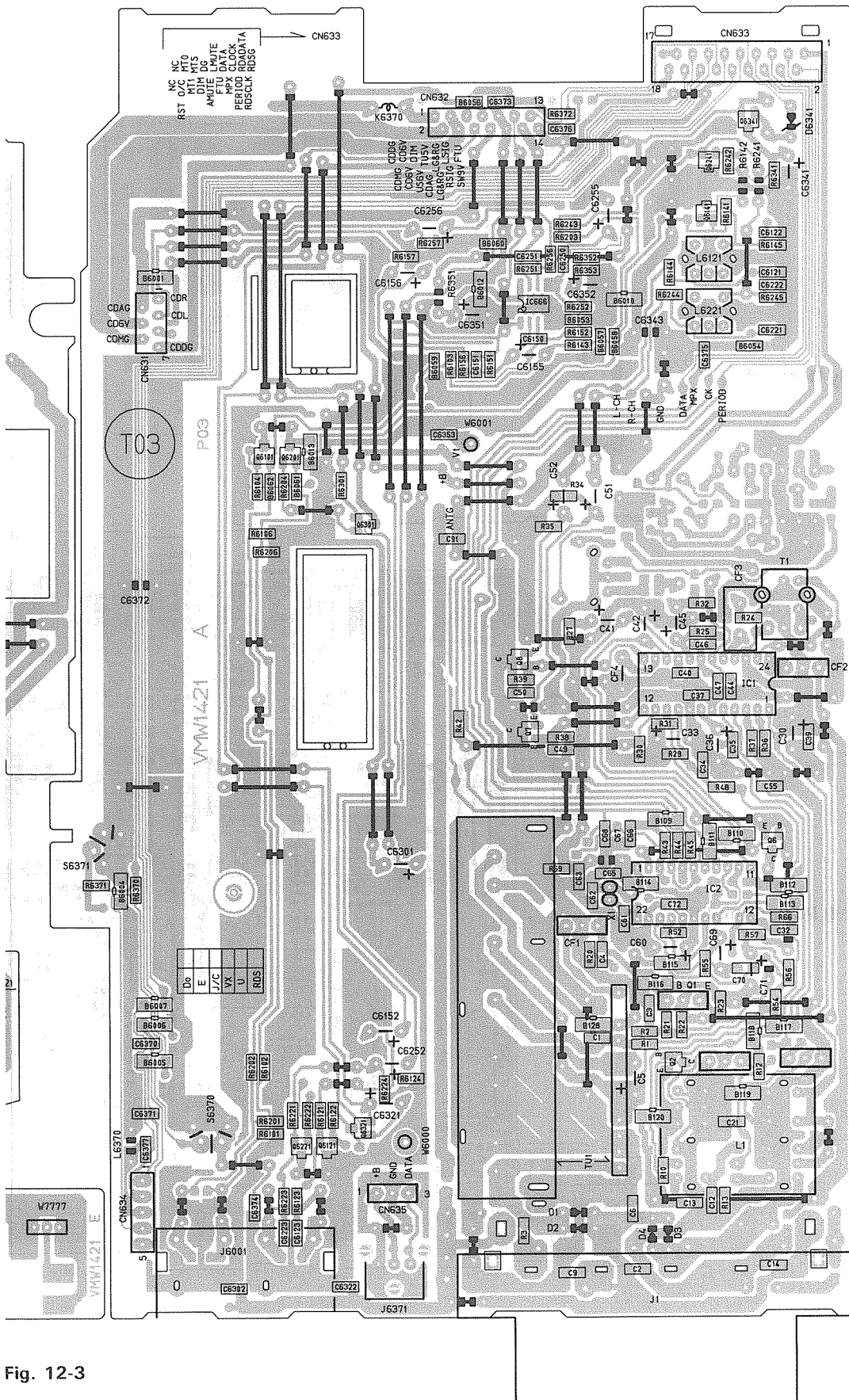


Fig. 12.



← ● Tuner Function Board

Fig. 12-3



CD Servo Control Board : Block No. 03

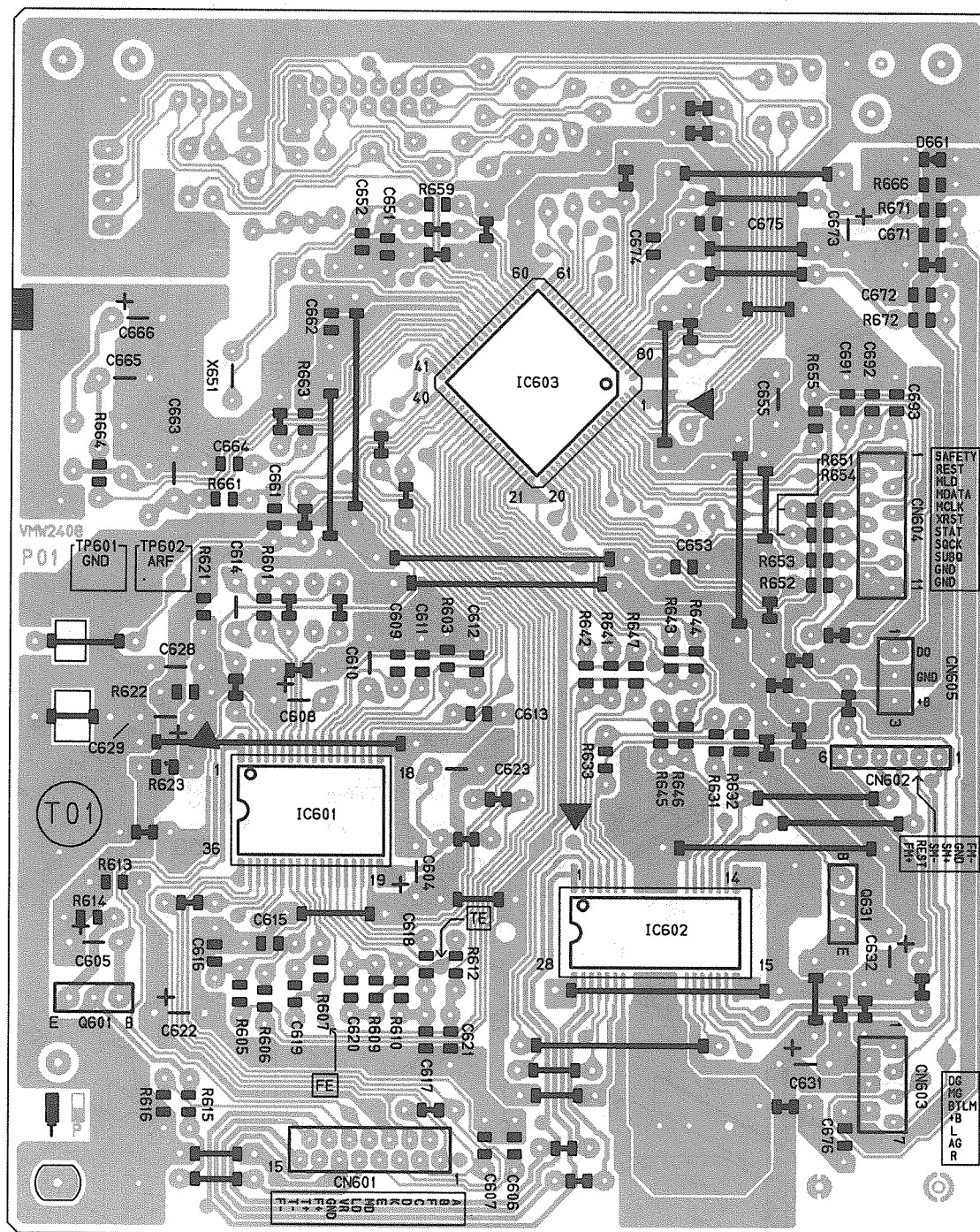
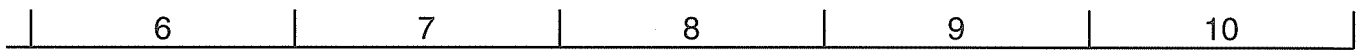


Fig.12-5



# 13.Analytic Drawing and Parts List

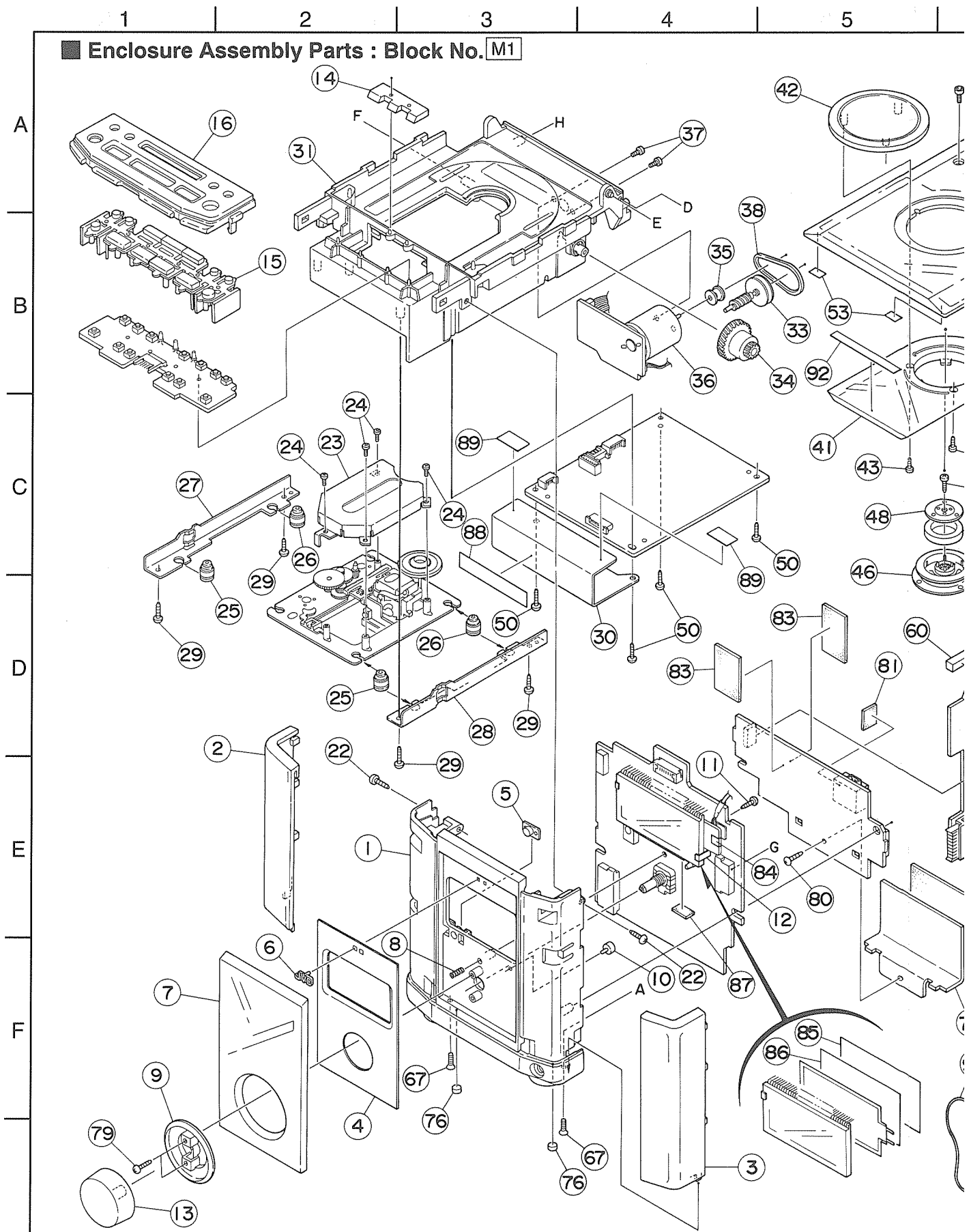


Fig.13-1

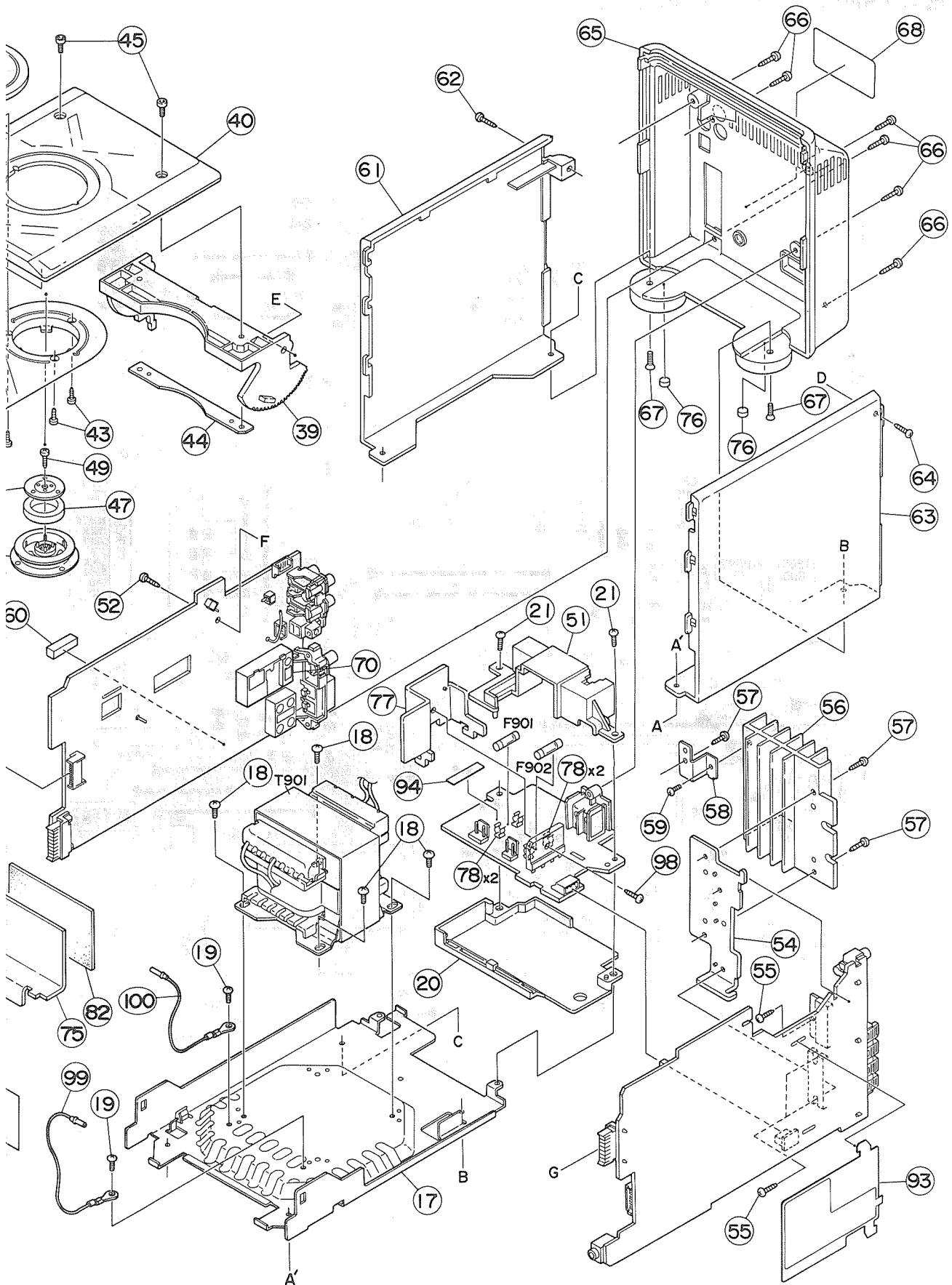
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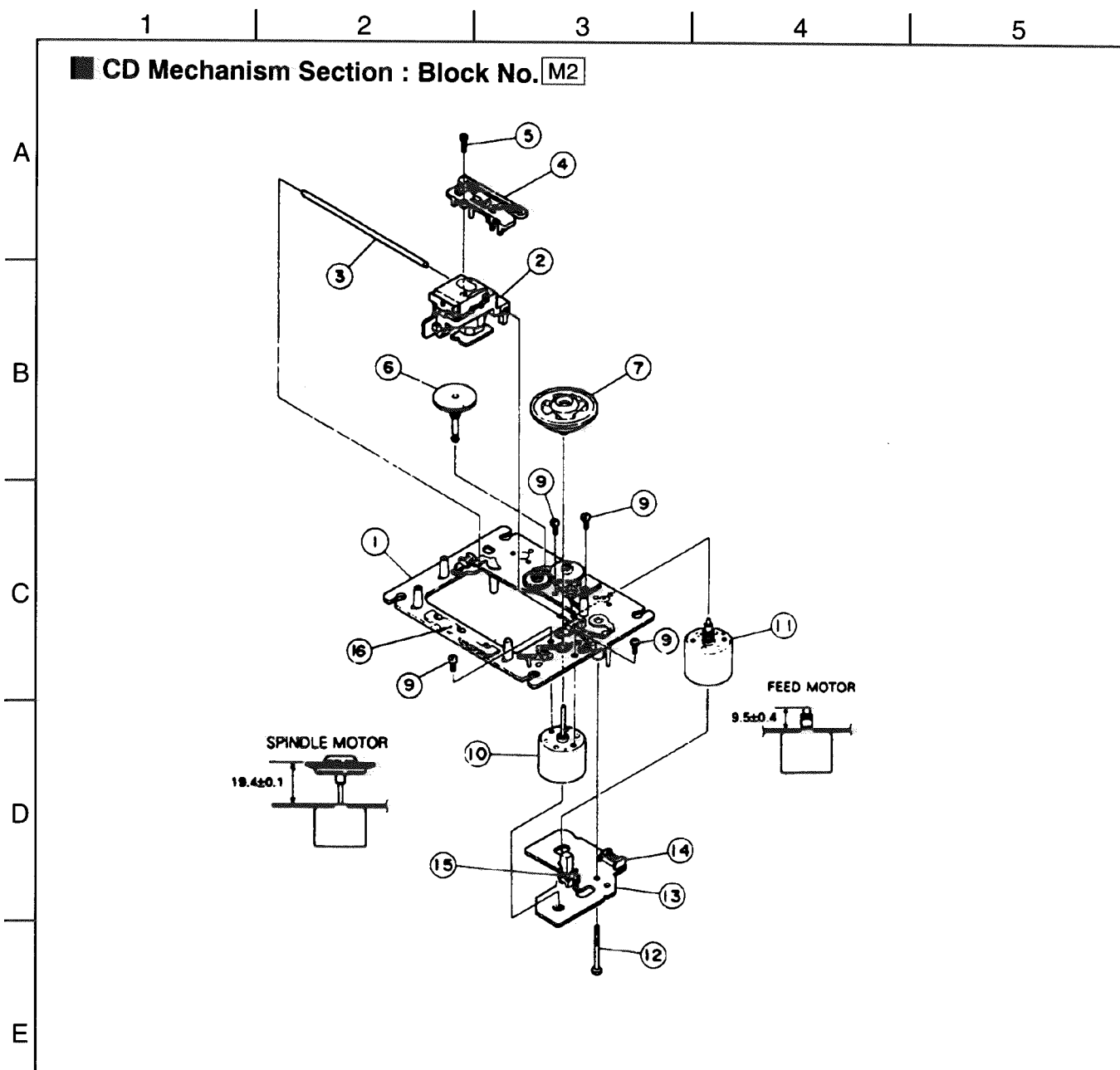
## ■ Enclosure Assembly Parts List

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJG1426-008	FRONT PANEL		1		
2	VJE3006-001	FITTING (L)		1		
3	VJE3007-001	FITTING (R)		1		
4	VJD5492-004	PLATE		1		
5	E408131-001	REMOTE LENS		1		
6	E406971-221	JVC MARK		1		
7	VJK3699-001	FRONT LENS		1		
8	VKW3001-321	COMP. SPRING		1		
9	VJD5491-001	VOL ESCUTCHEON		1		
10	VJK4493-001SC	LENS(STANDBY)		1		
11	SBSF3012Z	SCREW	PWB + FRONT	1		
12	VYH3944-002	LCD HOLDER		1		
13	VXL4448-001	VOLUME KNOB		1		
14	VJK4490-001SC	LED LENS		1		
15	VXP3807-002SC	BUTTON		1		
16	VJD2470-002SC	TOP PANEL		1		
17	VKL1444-001SC	BOTTOM CHASSIS		1		
18	SBST4006Z	SCREW		4		
19	SBST3004Z	SCREW		2		
20	VYH3939-001SC	AC HOLDER		1		
21	SBST3010Z	SCREW		2		
22	SBSF3012Z	SCREW		2		
23	VJD5410-005	PICK COVER		1		
24	SDSF2006M	SCREW		4		
25	E75609-001	INSULATOR		2		
26	E75609-002	INSULATOR		2		
27	VYH8089-001SC	CD MECHA HOLDER		1		
28	VYH8089-002SC	CD MECHA HOLDER		1		
29	SBSF3012Z	SCREW		4		
30	VMA4692-002SC	SHIELD		1		
31	VJD1210-002	CD CASE		1		
33	VYH8090-001SC	GEAR 1		1		
34	VYH8091-002SC	GEAR 2		1		
35	VYH7699-001	PULLEY		1		
36	MXN-13FB12F	DC MOTOR ASS'Y		1		
37	SPSP3004Z	SCREW		2		
38	VKB3000-170	BELT		1		
39	VJE3014-001SC	CD DOOR		1		
40	VJE3011-001	CD DOOR LENS		1		
41	VJK3701-001SC	ILLUMI LENS		1		
42	VJD5489-004	ORNAMENT		1		
43	SDSF2006M	SCREW		3		
44	VJD5490-001SC	STOPPER		1		
45	VKZ4765-001	S.BOLT(DIN)		2		
46	VYH3726-002SS	IC		1		
47	VYH7313-003	MAGNET		1		
48	VYH7677-201	YOKE		1		
49	SDSF2606Z	SCREW		1		
50	SBSF3012Z	SCREW	CD CASE + CD PW	4		
51	VYH3962-001	SW HOLDER		1		
52	SBSF3012Z	SCREW		1		
53	VYSS1R1-108	SPACER	FOR DOOR LENS	2		
54	VYH8093-001SC	IC HOLDER		1		
55	SBSF3010Z	SCREW		3		
56	VMH3017-201	HEAT SINK		1		

BLOCK NO. **M1MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	57	SBSF3012Z	SCREW			
	58	VYH8107-001	BRACKET			
	59	SBST3008Z	SCREW			
	60	VYSH104-047	SPACER			
	61	VJD2471-001	SIDE PANEL (L)			
	62	SBSF3012Z	SCREW			
	63	VJD2472-001	SIDE PANEL (R)			
	64	SBSF3012Z	SCREW			
	65	VJG1430-001	REAR COVER			
	66	SBSF3012Z	SCREW			
	67	SSST3010Z	SCREW			
	68	VYN9302-C023	NAME PLATE			
	70	VMA4709-001	SHIELD			
	75	VMA4706-002SC	SHIELD			
	76	VJF4055-001	FOOT			
	77	VYH8094-002SC	HEAT SINK			
	78	EMG7331-003Z	FUSE CLIP			
	79	SBSF3012Z	SCREW			
	80	SBSF3010Z	SCREW			
	81	VYSR102-062	SPACER			
	82	VYSR102-063	SPACER			
	83	VYSR102-066	SPACER			
	84	PU59915-105	SPACER			
	85	VYSS1R1-109	SPACER			
	86	VYSS1R1-110	SPACER			
	87	VYSS1R5-080	SPACER			
	88	VYSA1R4-050	SPACER			
	89	VYSA1R6-021	SPACER			
	92	VYST1R1-003	SPACER			
	93	VMA4702-002	SHIELD			
	94	PU59915-105	SPACER			
	98	SBSF3010Z	SCREW			
	99	VWE240-12NTSA	LUG WIRE			
	100	VWE240-10NTSA	LUG WIRE			
	101	VGL1208-001S	L.C.D.			
	102	ESPR10001	L.E.PANEL			
A	F 901	QMF51E2-R40SBS	FUSE			
A	F 902	QMF51E2-6R3J1	FUSE			
A	T 901	VTP66J2-12K	POWER TRANS			



### CD Mechanism Parts List

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	EPB-002A	MECHA BASE ASSY		1		
2	OPTIMA-6S	OPTICAL PICK-UP		1		
3	E406777-001	GUIDE SHAFT		1		
4	E307746-001	CD RACK		1		
5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
6	EPB-003A	MECHA GEAR		1		
7	E75807-301	TURN TABLE		1		
9	SDSP2003N	SCREW	FOR MOTOR	4		
10	E406783-001	DC MOTOR	SPINDOL MOTOR	1		
11	E406784-001SA	DC MOTOR ASSY	FEED MOTOR	1		
12	E75832-001	SPECIAL SCREW	M.REAF SWITCH	1		
13	EMW10190-001	PRINTED BOARD	LEAF SWITCH	1		
14	EMV5109-006B	6P PLUG ASS'Y		1		
15	ESB1100-005	LEAF SWITCH		1		
16	E407212-001	DAMPER		1		

14.Electrical Parts List

Main Amplifier Board

BLOCK NO. 00111111				BLOCK NO. 00111111							
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 901	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V			C3021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V	
	C 902	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V			C3022	QTE1C1M-226Z	E.CAPACITOR	1.0MF 20% 50V	
	C 903	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V			C3031	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V	
	C 904	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V			C3032	QER41HM-105VM	E.CAPACITOR	.056MF 5% 50V	
	C3000	EMV7163-004	CONNECTOR				C3033	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V	
	C3001	VMC0075-R02	CONNECTOR	CD DOOR			C3034	QFV71HJ-563ZM	FILM CAPACITOR	1.0MF 20% 50V	
	C3002	VMC0340-S16	CONNECTOR	MICOM			C3035	QET41HM-105	E.CAPACITOR	1.0MF 20% 16V	
	C3003	VMC0314-P14	CONNECTOR	EL/TU/CONN			C3036	QET41CM-106	E.CAPACITOR	1.0MF 20% 16V	
	C3004	VM70015-002	POST PIN	SHARSHI EARTH			C3037	QET41CM-106	E.CAPACITOR	1.0MF 20% 16V	
	C3005	VM70015-011	STYLE PIN	WR32 WIRE CLAM			C3041	QER41CM-106	E.CAPACITOR	1.0MF 20% 16V	
	C3006	VM70015-011	STYLE PIN	CN351 S WIRE CL			C3051	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
	C3007	VMC0314-S14	CONNECTOR				C3052	QET41CM-226	E.CAPACITOR	22MF 20% 16V	
	C3008	VMC0314-S14	CONNECTOR				C3053	QET41CM-106	E.CAPACITOR	1.0MF 20% 16V	
	C3009	VMC0075-003	CONNECTOR				C3081	QET41AM-227	E.CAPACITOR	220MF 20% 10V	
	C3010	VM70049-B02	CONNECTOR	PRI			C3083	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C3011	VM70049-A02	CONNECTOR	SEC			C3084	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C3012	EMV5163-004R	CONNECTOR	MAIN			C3085	QET41HM-474	E.CAPACITOR	.47MF 20% 50V	
	C3013	QCB81HK-331Y	C.CAPACITOR	330PF 10% 50V			C3086	EETB1CM-106E	E.CAPACITOR	10MF 20% 25V	
	C3014	QCB81HK-331Y	C.CAPACITOR	.10MF 20% 25V			C3087	QET41EM-106	E.CAPACITOR	10MF 20% 16V	
	C3015	QCB81HK-331Y	C.CAPACITOR	.10MF 20% 25V			C3088	QER41CM-106	E.CAPACITOR	33PF 5% 50V	
	C3016	QF1E1V06-106Z	E.CAPACITOR				C3501	QCS11HJ-330	C.CAPACITOR	200PF 5% 50V	
	C3017	QF881HJ-683	M.CAPACITOR	MAKER SHITEI			C3502	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	C3018	QF881HJ-683	M.CAPACITOR	MAKER SHITEI			C3503	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	C3019	QF881HJ-683	M.CAPACITOR				C3504	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C3020	QF881HJ-683	M.CAPACITOR				C3505	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C3021	QF881HJ-683	M.CAPACITOR				C3506	QCB81HK-102Y	C.CAPACITOR	220MF 20% 16V	
	C3022	QF881HJ-683	M.CAPACITOR				C3507	QCB81HK-271Y	C.CAPACITOR	6.8MF 20% 25V	
	C3023	QF881HJ-683	M.CAPACITOR				C3508	QCS11HJ-680	C.CAPACITOR	.033MF 5% 50V	
	C3024	QF881HJ-683	M.CAPACITOR				C3509	QF881HJ-333ZM	M.CAPACITOR	.010MF 20% 16V	
	C3025	QF881HJ-683	M.CAPACITOR				C3510	QCB81CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C3026	QF881HJ-683	M.CAPACITOR				C3511	QCB81CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C3027	QF881HJ-683	M.CAPACITOR				C3512	QCB81HK-102Y	C.CAPACITOR	.010MF 20% 16V	
	C3028	QF881HJ-683	M.CAPACITOR				C3513	QFV41HJ-104ZM	FILM CAPACITOR	1.0MF 5% 50V	
	C3029	QF881HJ-683	M.CAPACITOR				C3514	QET41EM-107	E.CAPACITOR	100MF 20% 25V	
	C3030	QF881HJ-683	M.CAPACITOR				C3515	QET41EM-107	E.CAPACITOR	100MF 20% 25V	
	C3031	QF881HJ-683	M.CAPACITOR				C3516	QET41EM-106	E.CAPACITOR	1.0MF 20% 25V	
	C3032	QF881HJ-683	M.CAPACITOR				C3517	QET41EM-106	E.CAPACITOR	1.0MF 20% 25V	
	C3033	QF881HJ-683	M.CAPACITOR				C3518	QET41EM-105	E.CAPACITOR	1.0MF 20% 50V	
	C3034	QF881HJ-683	M.CAPACITOR				C3519	QET41CM-106	E.CAPACITOR	10MF 20% 16V	
	C3035	QF881HJ-683	M.CAPACITOR				C3520	QET41CM-337ZM	E.CAPACITOR	330MF 20% 16V	
	C3036	QF881HJ-683	M.CAPACITOR				C3521	QET41CM-476	E.CAPACITOR	47MF 20% 16V	
	C3037	QF881HJ-683	M.CAPACITOR				C3522	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3038	QF881HJ-683	M.CAPACITOR				C3523	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3039	QF881HJ-683	M.CAPACITOR				C3524	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3040	QF881HJ-683	M.CAPACITOR				C3525	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3041	QF881HJ-683	M.CAPACITOR				C3526	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3042	QF881HJ-683	M.CAPACITOR				C3527	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3043	QF881HJ-683	M.CAPACITOR				C3528	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3044	QF881HJ-683	M.CAPACITOR				C3529	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3045	QF881HJ-683	M.CAPACITOR				C3530	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3046	QF881HJ-683	M.CAPACITOR				C3531	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3047	QF881HJ-683	M.CAPACITOR				C3532	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3048	QF881HJ-683	M.CAPACITOR				C3533	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3049	QF881HJ-683	M.CAPACITOR				C3534	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3050	QF881HJ-683	M.CAPACITOR				C3535	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3051	QF881HJ-683	M.CAPACITOR				C3536	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3052	QF881HJ-683	M.CAPACITOR				C3537	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3053	QF881HJ-683	M.CAPACITOR				C3538	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3054	QF881HJ-683	M.CAPACITOR				C3539	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3055	QF881HJ-683	M.CAPACITOR				C3540	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3056	QF881HJ-683	M.CAPACITOR				C3541	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3057	QF881HJ-683	M.CAPACITOR				C3542	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3058	QF881HJ-683	M.CAPACITOR				C3543	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3059	QF881HJ-683	M.CAPACITOR				C3544	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3060	QF881HJ-683	M.CAPACITOR				C3545	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3061	QF881HJ-683	M.CAPACITOR				C3546	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3062	QF881HJ-683	M.CAPACITOR				C3547	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3063	QF881HJ-683	M.CAPACITOR				C3548	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3064	QF881HJ-683	M.CAPACITOR				C3549	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3065	QF881HJ-683	M.CAPACITOR				C3550	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3066	QF881HJ-683	M.CAPACITOR				C3551	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3067	QF881HJ-683	M.CAPACITOR				C3552	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3068	QF881HJ-683	M.CAPACITOR				C3553	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3069	QF881HJ-683	M.CAPACITOR				C3554	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3070	QF881HJ-683	M.CAPACITOR				C3555	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3071	QF881HJ-683	M.CAPACITOR				C3556	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3072	QF881HJ-683	M.CAPACITOR				C3557	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3073	QF881HJ-683	M.CAPACITOR				C3558	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3074	QF881HJ-683	M.CAPACITOR				C3559	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3075	QF881HJ-683	M.CAPACITOR				C3560	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3076	QF881HJ-683	M.CAPACITOR				C3561	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3077	QF881HJ-683	M.CAPACITOR				C3562	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3078	QF881HJ-683	M.CAPACITOR				C3563	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3079	QF881HJ-683	M.CAPACITOR				C3564	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3080	QF881HJ-683	M.CAPACITOR				C3565	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3081	QF881HJ-683	M.CAPACITOR				C3566	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3082	QF881HJ-683	M.CAPACITOR				C3567	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3083	QF881HJ-683	M.CAPACITOR				C3568	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3084	QF881HJ-683	M.CAPACITOR				C3569	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3085	QF881HJ-683	M.CAPACITOR				C3570	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3086	QF881HJ-683	M.CAPACITOR				C3571	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3087	QF881HJ-683	M.CAPACITOR				C3572	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3088	QF881HJ-683	M.CAPACITOR				C3573	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3089	QF881HJ-683	M.CAPACITOR				C3574	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3090	QF881HJ-683	M.CAPACITOR				C3575	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3091	QF881HJ-683	M.CAPACITOR				C3576	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3092	QF881HJ-683	M.CAPACITOR				C3577	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3093	QF881HJ-683	M.CAPACITOR				C3578	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3094	QF881HJ-683	M.CAPACITOR				C3579	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3095	QF881HJ-683	M.CAPACITOR				C3580	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3096	QF881HJ-683	M.CAPACITOR				C3581	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3097	QF881HJ-683	M.CAPACITOR				C3582	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3098	QF881HJ-683	M.CAPACITOR				C3583	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3099	QF881HJ-683	M.CAPACITOR				C3584	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3100	QF881HJ-683	M.CAPACITOR				C3585	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3101	QF881HJ-683	M.CAPACITOR				C3586	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3102	QF881HJ-683	M.CAPACITOR				C3587	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3103	QF881HJ-683	M.CAPACITOR				C3588	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3104	QF881HJ-683	M.CAPACITOR				C3589	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3105	QF881HJ-683	M.CAPACITOR				C3590	QF881HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C3106	QF8									

BLOCK NO. 01

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R1032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R1041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R1052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R1082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R1083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
R1085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R1086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R1087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1088	QRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	
R1089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R2002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R2003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R2004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R2022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R2024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R2025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R2041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R2052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R2082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R2083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
R2085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R2086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R2087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2088	QRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	
R2089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3033	QRD161J-184	CARBON RESISTOR	120K 5% 1/6W	
R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W	
R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3052	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3053	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3054	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R3055	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R3056	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	

BLOCK NO. 02

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D5303	15S133	SI DIODE	TU SW	
D9001	MTZ10JAT-77	ZENER DIODE	STANDBY MOTOR	
D9002	1SR35-100A-T2	SI DIODE		
D9101	MA4075(M)	ZENER DIODE		
D9201	MTZ6.8JB	ZENER DIODE		
D9202	MTZ5.1JB	ZENER DIODE		
D9301	15S133	SI DIODE	POWER AMP	
D9302	MTZ8.2JB	ZENER DIODE	AMB AMP	
D9303	15S133	SI DIODE	E VOL	
IC 31	LA4705NA	IC	REG	
IC 32	NJM4580LD	IC		
IC 35	NJM4580L	IC		
IC 38	BH382S	IC		
IC 91	D5SBA20-4101	SI DIODE		
IC 901	BA3960	IC		
IC 931	KIA78S06P-T	IC		
J 901	QNC0001-001	AC SOCKET 8TYPE		
J3002	FMJ3020-101	1PIN PINJ BLACK	SUB WOOFER	
J3003	FMJ4001-001	SPK TERMINAL	SPEAKER	
J3004	QMS3L60-540G	3.5 JACK	KIKAKU HENKOU	
L3001	VQP0018-470	INDUCTOR		
L3901	VQH1009-042	OSC COIL (BIAS)		
L5902	VGP0033-100Z	INDUCTOR		
L9001	VGP0033-100Z	INDUCTOR	EL&MICON NOISE	
Q1031	KTC3199(GL)-T	TRANSISTOR		
Q1041	2SD2144S(VW)	TRANSISTOR		
Q1051	2SK301(P-8)	TRANSISTOR		
Q2031	KTC3199(GL)-T	TRANSISTOR		
Q3041	2SD2144S(VW)	TRANSISTOR		
Q2051	2SK301(P-8)	TRANSISTOR		
Q3041	KRA101M-T	TRANSISTOR	BASS MUTE	
Q3081	2SD2144S(VW)	TRANSISTOR		
Q3501	KTC3199(GL)-T	TRANSISTOR		
Q3502	KTC3199(GL)-T	TRANSISTOR		
Q3511	DTC144WSTP	TRANSISTOR		
Q3301	KTA1267(VG)-T	TRANSISTOR	TU SW	
Q3302	KTC3199(GL)-T	TRANSISTOR	TU SW	
Q3901	2SD2144S(VW)	TRANSISTOR		
Q3902	KRC102M-T	D. TRANSISTOR	FOR DIMMER	
Q3903	2SA952(L-K)	TRANSISTOR		
Q9001	KTC3199(GL)-T	TRANSISTOR		
Q9201	2SD882(P-8)	TRANSISTOR		
Q9202	KRA107M-T	TRANSISTOR		
R1001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R1004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R1022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R1023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R1024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R1025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	

Tuner & System CPU Board

Tuner & System CPU Board						BLOCK NO. 02	BLOCK NO. 02	
A	REF	PARTS NO.	PARTS NAME	REMARKS	SUFFIX			
	BL701	ESPR10001	EL PANEL(YELLOW)	LCD BACK LIGHT				
C	1	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V				
C	2	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	3	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V				
C	4	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V				
C	5	QEK41CM-106	E.CAPACITOR	10MF 20% 16V				
C	6	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	9	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	12	NCT21UJ-100AY	C CAPACITOR	10PF 5%				
C	13	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V				
C	14	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V				
C	21	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V				
C	30	QEK41CM-476	E.CAPACITOR	47MF 20% 16V				
C	32	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	33	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V				
C	34	NCS21HJ-150AY	C CAPACITOR	15PF 5% 50V				
C	35	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	36	QEK41CM-106	E.CAPACITOR	10MF 20% 16V				
C	37	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V				
C	39	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V				
C	40	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V				
C	41	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V				
C	42	QEK41HM-474	E.CAPACITOR	.47MF 20% 50V				
C	44	NCS21HJ-221AY	C CAPACITOR	220PF 5% 50V				
C	45	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V				
C	46	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V				
C	47	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V				
C	49	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V				
C	50	NCB21HK-153AY	C CAPACITOR	.015MF 10% 50V				
C	51	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V				
C	52	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V				
C	60	QEK61AM-107Z	E.CAPACITOR	100MF 20% 10V				
C	61	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V				
C	62	NCS21HJ-120AY	C CAPACITOR	12PF 5% 50V				
C	63	NCB21HK-473AY	C CAPACITOR	.047MF 10% 25V				
C	65	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	66	NCS21HJ-151AY	C CAPACITOR	150PF 5% 50V				
C	68	NCS21HJ-101AY	C CAPACITOR	100PF 5% 50V				
C	69	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V				
C	70	NCB21HK-392AY	C CAPACITOR	3900PF 10% 50V				
C	71	QEK61HM-335ZN	E.CAPACITOR	3.3MF 20% 50V				
C	72	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V				
C	91	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V				
CF	1	VCF2L3B-108Z	C FILTER	FM IF				
CF	2	VCF2L3B-108Z	C FILTER	FM IF				
CF	3	VCF122Z-115Z	CERAMIC FILTER					
CF	4	CMU2-456A05	CERA LOCK					
CN631		VMC0163-R07	CONNECTOR					
CN632		VMC0314-P14	CONNECTOR					
CN633		VMC0340-S18	CONNECTOR					
CN634		VMC0041-005	CONNECTOR					
CN635		VMC0040-003	CONNECTOR					
CN711		VMC0340-P16	CONNECTOR					
CN761		VMC0340-P18	CONNECTOR					
CN766		VMC0163-R11	CONNECTOR					
			TO MAIN					
			TO FUNC.TUNER					
			TO CD					

BLOCK NO. 01

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R3083	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R3084	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R3085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R3086	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R3501	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R3502	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R3503	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R3504	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R3505	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	R3507	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3508	QRD161J-334	CARBON RESISTOR	330K 5% 1/6W	
	R3509	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R3510	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R3511	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R3512	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R5301	QRD161J-390	CARBON RESISTOR	TU SW	
	R5302	QRD161J-102	CARBON RESISTOR	TU SW	
	R5303	QRD161J-563	CARBON RESISTOR	TU SW	
	R5304	QRD161J-472	CARBON RESISTOR	TU SW	
	R5901	QRD161J-270	CARBON RESISTOR	27 5% 1/6W	
	R5902	QRD161J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R5903	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R5904	QRZ0077-330	F. RESISTOR	33 1/0W	
	R5905	QRD161J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R9001	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R9002	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R9003	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9004	QRD161J-591	CARBON RESISTOR	390 5% 1/6W	
	R9102	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R9103	QRD161J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R9104	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9105	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9201	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R9202	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R9203	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R9204	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R9205	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
A	R9301	QRZ0077-4R7X	FUSE RESISTOR	4.7 1/0W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN781	ENV7159-006	CONNECTOR BTOB	TO SW		
CN801	ENV7159-006R	B TO B CONNECT	TO MICOM		
C4001	QET41CM-106	E CAPACITOR	10MF 20% 16V		
C4002	QETCOJM-227ZN	E CAPACITOR	220MF 20% 6.3V		
C4003	QET41AM-107	E CAPACITOR	100MF 20% 10V		
C6121	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V		
C6122	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V		
C6151	NCB21HJ-100AY	C CAPACITOR	10PF 5% 50V		
C6152	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V		
C6155	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V		
C6156	QIE1C03-106Z	E-CAPACITOR	1000PF 10% 50V		
C6221	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V		
C6222	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V		
C6251	NCB21HJ-100AY	C CAPACITOR	10PF 5% 50V		
C6252	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V		
C6255	QER41EM-475VM	E-CAPACITOR	4.7MF 20% 25V		
C6256	QIE1C03-106Z	E-CAPACITOR	1000PF 10% 50V		
C6301	QER61HM-684ZM	E-CAPACITOR	.68MF 20% 50V		
C6302	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C6321	QER41CM-106	E-CAPACITOR	10MF 20% 16V		
C6322	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C6341	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V		
C6343	QCB81HK-151Y	C-CAPACITOR	150PF 10% 50V		
C6351	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		
C6352	QIE1V06-106Z	E-CAPACITOR	100PF 10% 25V		
C6353	NCB21EK-823AY	C CAPACITOR	.082MF 10% 25V		
C6370	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		
C6371	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		
C6372	QCB81HK-151Y	C CAPACITOR	150PF 10% 50V		
C6373	NCB21HK-182AY	C CAPACITOR	1800PF 10% 50V		
C6374	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		
C6375	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C6376	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7001	NCB21HJ-180AY	C CAPACITOR	18PF 5% 50V		
C7002	NCB21HJ-180AY	C CAPACITOR	18PF 5% 50V		
C7004	NCB21HJ-360AY	C CAPACITOR	36PF 5% 50V		
C7005	NCB21HJ-390AY	C CAPACITOR	39PF 5% 50V		
C7006	NCB21HJ-200AY	C CAPACITOR	20PF 5% 50V		
C7007	NCB21HJ-220AY	C CAPACITOR	22PF 5% 50V		
C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7011	QER41AM-107	E-CAPACITOR	100MF 20% 10V		
C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C7013	QFLC1HJ-104ZM	M-CAPACITOR	.10MF 5% 50V		
C7014	QER41CM-106	E-CAPACITOR	10MF 20% 16V		
C7021	QER41CM-476M	E-CAPACITOR	47MF 20% 16V		
C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7026	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C7027	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C7031	EECS0HD473H	E-D.L-CAPACITOR	10MF 20% 16V		
C7051	QER41CM-106	E-CAPACITOR	10MF 20% 16V		
C7052	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		
C7081	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7091	QER41AM-107	E-CAPACITOR	100MF 20% 10V		
C7701	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C7702	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		
C7704	NCB21HJ-331AY	C CAPACITOR	330PF 5% 50V		
C7719	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7721	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7722	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7723	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7724	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7725	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7737	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7757	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		
C7758	QER61HM-335ZM	E-CAPACITOR	3.3MF 20% 50V		
C7759	QER41HM-225	E-CAPACITOR	2.2MF 20% 50V		
C7771	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V		
C7773	QER41HM-105VM	E-CAPACITOR	1.0MF 20% 50V		
C7782	NCB21HJ-151AY	C CAPACITOR	MICOM NOISE		
C7783	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		
C7787	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
D 1	1SS133	SI DIODE			
D 2	1SS133	SI DIODE			
D 3	1SS133	SI DIODE			
D 4	1SS133	SI DIODE			
D1701	VGL1208-001S	L.C.D.			
D6341	MT26-2JB	ZENER DIODE			
D7001	1SS133	SI DIODE	US5V		
D7011	MT28-2JB	ZENER DIODE			
D7012	1SS133	SI DIODE			
D7031	1SS133	SI DIODE	BACK UP		
D7032	1SS133	SI DIODE	XKILL		
D7051	1SS133	SI DIODE	RESET		
D7061	MT25-1JC	ZENER DIODE	BACK UP		
D7091	SLR-342VC-109	LED RED H8.9MM	STANDBY LED		
D7092	1SS133	SI DIODE			
D7095	1SS133	SI DIODE			
D8101	SLR-342MC-109	LED GRN. H8.9MM	CD DOOR		
D8102	SLR-342MC-109	LED GRN. H8.9MM	CD DOOR		
D8103	SLT-481C09-T6	LED	CD DOOR		
IC 1	TA2057N	IC			
IC 2	LC72136	IC			
IC401	TAB409S	IC			
IC666	BA15218F	IC	FUNCTION		
IC701	UPD78043GF-111	IC	SYSTEM MICON		
IC702	SBX1971-52	RM-RECIVER			
IC703	KIA78S06P-T	IC			
J 1	FMB101V-401K	ANT TERMINAL	AM/FM ANT		
JS701	VCV7003-001	ROTARY ENCODER			
J6001	VMJ3025-001	4PIN JACK ASSY			
J6371	GP1F32T	OPTICAL JACK			
K6370	VQ70048-007	INDUCTOR			
K7001	VQ70107-002	INDUCTOR	VSS		
K7003	VQ70107-002	INDUCTOR			
K8001	VQ70107-002	INDUCTOR			
L 1	VQ20098-202	COIL BLOCK			
L 4	VQ70018-221	INDUCTOR	MW/LW RF/OSC		
L4001	VQF0028-221Z	INDUCTOR			

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	L4002	VQ0107-002	INDUCTOR		
	L6121	EQF0101-010	FILTER		
	L6221	EQF0101-010	FILTER		
	L6370	VQ0018-100	INDUCTOR		
	L7002	VQ0033-100Z	INDUCTOR	SW5V	
	L7332	VQ0018-4R7	INDUCTOR	AVREF	
	L7701	VQ0018-4R7	INDUCTOR	SDATA	
	L7702	VQ0018-4R7	INDUCTOR	SCK	
	L7731	VQ0033-100Z	INDUCTOR	AVDD	
	Q 1	2SC268(0)	TRANSISTOR		
	Q 6	DTA114YKA-X	TRANSISTOR		
	Q 7	2SA1037K(R)	TRANSISTOR		
	Q 8	2SA1037K(R)	TRANSISTOR		
	Q4001	2SC2412KK1	TRANSISTOR		
	Q4002	2SC2412KK1	TRANSISTOR		
	Q4003	2SC2412KK1	TRANSISTOR		
	Q6101	2SC2412KK1	TRANSISTOR		
	Q6121	2SC2412KK1	TRANSISTOR		
	Q6141	2SC2412KK1	TRANSISTOR		
	Q6201	2SC2412KK1	TRANSISTOR		
	Q6221	2SC2412KK1	TRANSISTOR		
	Q6241	2SC2412KK1	TRANSISTOR		
	Q6301	2SC2412KK1	TRANSISTOR		
	Q6321	DTA114EKA-X	TRANSISTOR		
	Q6341	DTA114EKA-X	TRANSISTOR		
	Q7001	2SC268(0)	TRANSISTOR	CLOCK SHIFT	
	Q7002	2SC268(0)	TRANSISTOR	CLOCK SHIFT	
	Q7031	2SA1037AK(RS)-X	HIP TRANSISTOR	SW5V	
	Q7051	DTA114TKT146	TRANSISTOR	RESET	
	Q7061	2SC2412KK1	TRANSISTOR	BACK UP	
	Q7091	2SC2412KK1	TRANSISTOR	POUT SW	
	Q7092	2SA1037AK(RS)-X	HIP TRANSISTOR	STANDBY LED CON	
	Q7784	DTA144TKA-X	TRANSISTOR	TUNER DATA CONT	
	R 1	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 2	NRS02J-820NY	MG RESISTOR	82 5% 1/10W	
	R 3	NRS02J-OR0NY	MG RESISTOR	5% 1/10W	
	R 10	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 12	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 13	NRS02J-104NY	MG RESISTOR	100K 5% 1/10W	
	R 20	NRS02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 21	NRS02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R 22	NRS02J-331NY	MG RESISTOR	330 5% 1/10W	
	R 23	NRS02J-270NY	MG RESISTOR	27 5% 1/10W	
	R 24	NRS02J-271NY	MG RESISTOR	270 5% 1/10W	
	R 25	NRS02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 27	NRS02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R 29	NRS02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 30	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 31	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 32	NRS02J-473NY	MG RESISTOR	47K 5% 1/10W	
	R 34	NRS02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 35	NRS02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R 36	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R 37	NRS02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 38	NRS02J-392NY	MG RESISTOR	3.9K 5% 1/10W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 39	NRS02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R 42	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 43	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 44	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 45	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 48	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 52	NRS02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 54	NRS02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
	R 55	NRS02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
	R 56	NRS02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R 57	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R 66	NRS02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R 69	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R4001	NRS02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R4002	NRS02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
	R4003	QRD14CJ-3R9S	UNF - C-RESISTOR	3.9 5% 1/4W	
	R4004	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R4005	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
	R6101	NRS02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6102	NRS02J-623NY	MG RESISTOR	62K 5% 1/10W	
	R6103	NRS02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6104	NRS02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6106	NRS02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6121	NRS02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6122	NRS02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6123	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6124	NRS02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6141	NRS02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
	R6142	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R6143	NRS02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R6144	NRS02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6145	NRS02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R6151	NRS02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6152	NRS02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6156	NRS02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R6157	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	
	R6201	NRS02J-224NY	MG RESISTOR	220K 5% 1/10W	
	R6202	NRS02J-623NY	MG RESISTOR	62K 5% 1/10W	
	R6203	NRS02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6204	NRS02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6206	NRS02J-153NY	MG RESISTOR	15K 5% 1/10W	
	R6221	NRS02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6222	NRS02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
	R6223	NRS02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
	R6244	NRS02J-223NY	MG RESISTOR	22K 5% 1/10W	
	R6245	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R6246	NRS02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
	R6247	NRS02J-123NY	MG RESISTOR	12K 5% 1/10W	
	R6248	NRS02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
	R6249	NRS02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
	R6251	NRS02J-154NY	MG RESISTOR	150K 5% 1/10W	
	R6252	NRS02J-333NY	MG RESISTOR	33K 5% 1/10W	
	R6256	NRS02J-124NY	MG RESISTOR	120K 5% 1/10W	
	R6257	NRS02J-103NY	MG RESISTOR	10K 5% 1/10W	



BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R6301	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6341	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6341	GRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R6352	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R6353	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R6370	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
R6371	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R7028	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7029	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7031	GRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7051	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7052	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7084	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7091	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7092	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R7093	NRSA02J-133NY	MG RESISTOR	15K 5% 1/10W	
R7095	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7096	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7097	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7098	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7641	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7702	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7705	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7706	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7723	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7727	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7729	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7736	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7737	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7738	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7741	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R7742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7743	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7746	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7747	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7749	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7751	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7752	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7753	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7754	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7755	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7756	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7757	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7758	NRSA02J-333NY	MG RESISTOR	47K 5% 1/10W	
R7759	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7761	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7762	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R7763	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7764	NRSA02J-683NY	MG RESISTOR	2.2K 5% 1/10W	
R7771	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7772	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
R7773	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
R7774	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R7775	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7783	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7784	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7785	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7819	GRD161J-122	CARBON RESISTOR	MICOM NOISE	
R7821	NRSA02J-102NY	MG RESISTOR	MICOM NOISE	
R7822	GRD161J-122	CARBON RESISTOR	MICOM NOISE	
R8001	NRSA02J-102NY	MG RESISTOR	FOR B7854	
R8002	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8003	NRSA02J-122NY	MG RESISTOR	1.0K 5% 1/10W	
R8004	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R8005	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8006	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R8007	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R8008	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R8009	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R8011	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8012	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8020	NRSA02J-473NY	MG RESISTOR	VERSION	
R8021	NRSA02J-ORONY	MG RESISTOR	VERSION	
R8101	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R8102	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
S6370	VSH1153-002	SWITCH	390 5% 1/10W	
S6371	VSH1153-002	SWITCH		

CD Servo Control Board

BLOCK NO. 03				
A	REF.	PARTS NO.	PARTS NAME	REMARKS
	C 604	QK51AM-107	E CAPACITOR	100PF 20% 10V
	C 605	QET41EM-106	E CAPACITOR	10MF 20% 25V
	C 606	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V
	C 607	QCB81HK-102Y	C CAPACITOR	1000PF 10% 50V
	C 608	QET41HM-105	E CAPACITOR	1.0MF 20% 50V
	C 609	QCB81HK-101Y	C CAPACITOR	100PF 10% 50V
	C 610	QFLC1HJ-273ZM	M CAPACITOR	.027MF 5% 50V
	C 611	QCB81CM-222Y	C CAPACITOR	2200PF 20% 16V
	C 612	QCB81CM-103Y	C CAPACITOR	.010MF 20% 16V
	C 613	QCB81HK-331Y	C CAPACITOR	330PF 10% 50V
	C 614	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V
	C 615	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%
	C 616	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%
	C 617	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%
	C 618	QCB81CM-222Y	C CAPACITOR	2200PF 20% 16V
	C 619	QCB81HK-271Y	C CAPACITOR	270PF 10% 50V
	C 620	QCS11HJ-470	C CAPACITOR	47PF 5% 50V
	C 621	QCB81HK-821Y	C CAPACITOR	820PF 10% 50V
	C 622	QET41AM-476	E CAPACITOR	47MF 20% 10V
	C 623	QFLC1HJ-104ZM	M CAPACITOR	.10MF 5% 50V
	C 624	QCB81CM-473V	C CAPACITOR	.047MF 20% 25V
	C 625	QET41AM-107	E CAPACITOR	100MF 20% 10V
	C 626	QET41AM-477	E CAPACITOR	470MF 20% 10V
	C 627	QK51AM-107	E CAPACITOR	100MF 20% 10V
	C 628	QCS11HJ-120	C CAPACITOR	12PF 5% 50V
	C 629	QCS11HJ-150	C CAPACITOR	15PF 5% 50V
	C 630	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%
	C 631	QCB81CM-473V	C CAPACITOR	.047MF 20% 25V
	C 632	QCB81HK-471Y	C CAPACITOR	470PF 10% 50V
	C 633	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%
	C 634	QFLC1HJ-273ZM	M CAPACITOR	.027MF 5% 50V
	C 635	QCB81EZ-223	C CAPACITOR	.022MF +80:-20%
	C 636	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V
	C 637	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V
	C 638	QCB81CM-152Y	C CAPACITOR	1500PF 20% 16V
	C 639	QFV71HJ-227	E CAPACITOR	.022MF +80:-20%
	C 640	QCB81EZ-223	C CAPACITOR	AG-DG
	C 641	QCB81HK-102Y	C CAPACITOR	AG-DG
	C 642	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE
	C 643	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE
	C 644	QCB81HK-151Y	C CAPACITOR	DENGEN NOISE
	C 645	QGF1008F1-15	15PIN CONNECTOR	TO RF
	C 646	VMC0163-R07	CONNECTOR	TO AUDIO
	C 647	VMC0163-R11	CONNECTOR	TO MICRON
	C 648	VMC0041-003	CONNECTOR	TO DIGITAL OUT
	C 649	1S5133	SI DIODE	
	C 650	AN8804SB	IC	RF AMP
	C 651	BA6897FP	IC	DRIVER
	C 652	MM35510	IC	1CHIP PROCESSOR
	C 653	2SA952(L-K)	TRANSISTOR	
	C 654	2SA952(L-K)	TRANSISTOR	
	C 655	QD161J-123	CARBON RESISTOR	12K 5% 1/6W
	C 656	QD161J-125	CARBON RESISTOR	1.2M 5% 1/6W
	C 657	QD161J-134	CARBON RESISTOR	130K 5% 1/6W

BLOCK NO. 02				
A	REF.	PARTS NO.	PARTS NAME	REMARKS
	S8001	QS04H11-V12Z	TACT SWITCH	
	S8002	QS04H11-V12Z	TACT SWITCH	
	S8003	QS04H11-V12Z	TACT SWITCH	
	S8004	QS04H11-V12Z	TACT SWITCH	
	S8005	QS04H11-V12Z	TACT SWITCH	
	S8006	QS04H11-V12Z	TACT SWITCH	
	S8007	QS04H11-V12Z	TACT SWITCH	
	S8008	QS04H11-V12Z	TACT SWITCH	
	S8009	QS04H11-V12Z	TACT SWITCH	
	S8010	QS04H11-V12Z	TACT SWITCH	
	S8011	QS04H11-V12Z	TACT SWITCH	
	S8012	QS04H11-V12Z	TACT SWITCH	
	S8013	QS04H11-V12Z	TACT SWITCH	
	T 1	VQ17A21-113	IFT	
	TU 1	VAF2S13-101	FRONT END	FM TU
	W6000	VM70015-005	POST PIN	
	W6001	VM70015-002	POST PIN	
	X 1	VCX5044-001	CRYSTAL	CLOCK
	X7001	VCX5000-002	CRYSTAL	MAIN CLOCK
	X7002	M274.19	CERA LOCK	

BLOCK NO. 03					SUFFIX
REF.	PARTS NO.	PARTS NAME	REMARKS		
R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W		
R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
R 609	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W		
R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W		
R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W		
R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W		
R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W		
R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W		
R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W		
R 621	QRD161J-330	CARBON RESISTOR	33 5% 1/6W		
R 622	QRD161J-330	CARBON RESISTOR	33 5% 1/6W		
R 623	QRD161J-330	CARBON RESISTOR	33 5% 1/6W		
R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W		
R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W		
R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W		
R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W		
R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W		
R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W		
R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W		
R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W		
R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W		
R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W		
R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W		
R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W		
R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W		
R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W		
R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W		
R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W		
X 651	VCX5016-934V	CRYSTAL	16.9344MHZ		

## 15.Packing

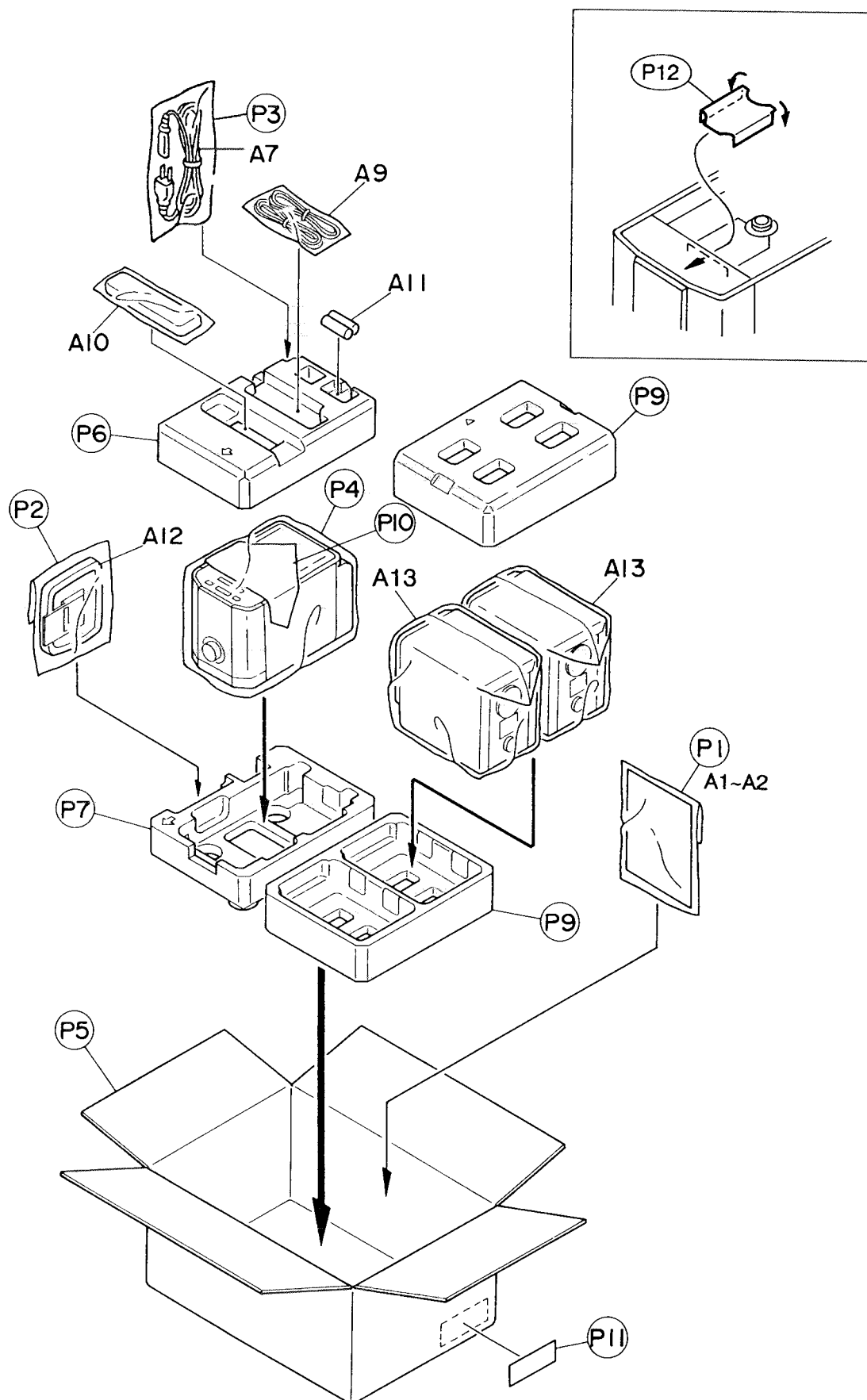


Fig. 15-1

# Packing Parts List

BLOCK NO. M3MM

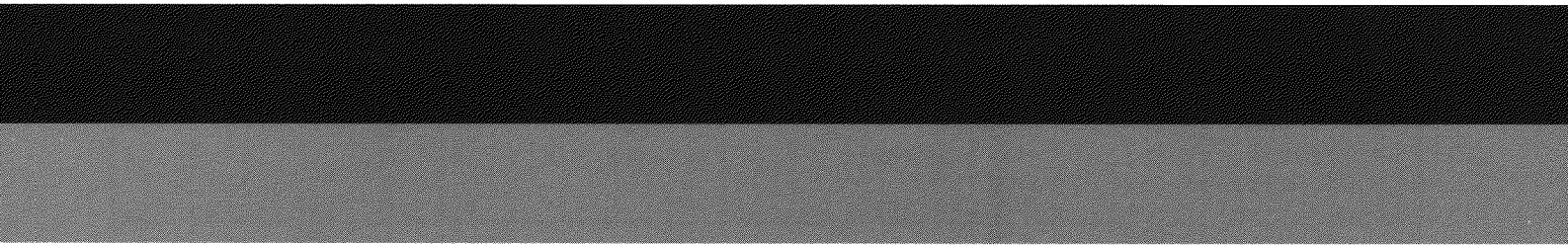
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
	P 2	VPE3005-042	POLY BAG	AM LOOP ANT	1		
	P 3	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
	P 4	VPE3020-018	POLY BAG	SET	1		
	P 5	VPC9302-C004	CARTON		1		
	P 6	VPH1695-001	CUSHION	TOP	1		
	P 7	VPH1695-002	CUSHION	BOTTOM	1		
	P 9	VPH2481-001	SPK CUSHION	SERVICE PARTS	2		
	P 10	VPK3001-012	SHEET		1		
	P 11	-----	CARTON LABEL		1		
	P 12	VPK4236-010	SPACER		1		

# Accessories

BLOCK NO. M4MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VNN9291-121C	INSTRUCTIONS		1		
	A 2	BT-59001-1C	JSC W CARD		1		
	A 7	QMP7530-183	POWER CORD	POWER CORD	1		
	A 8	EWP201-011	B. IN ANT	FM ANT.	1		
	A 9	VMP0133-001	SPK.CORD(2PCS)	SPEAKER CORD OF	1		
	A 10	VGR0055-301	REMOCON UNIT	RM-RXU2000GD	1		
	A 11	R6PRPA-2STSA	BATTERY	FOR REMOCON	2		
	A 12	EQB4001-015	AM LOOP ANT	AM ANT.	1		
	A 13	UX2000K-SPBOX	SPEAKER		2		
	SVP 1	VYTB430	SARAN NET ASSY	SERVICE PARTS	2		
	SVP 2	VGS0801-009	SPEAKER	SERVICE PARTS	2		

**UX-2000GD** UF



VICTOR COMPANY OF JAPAN LIMITED  
AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan